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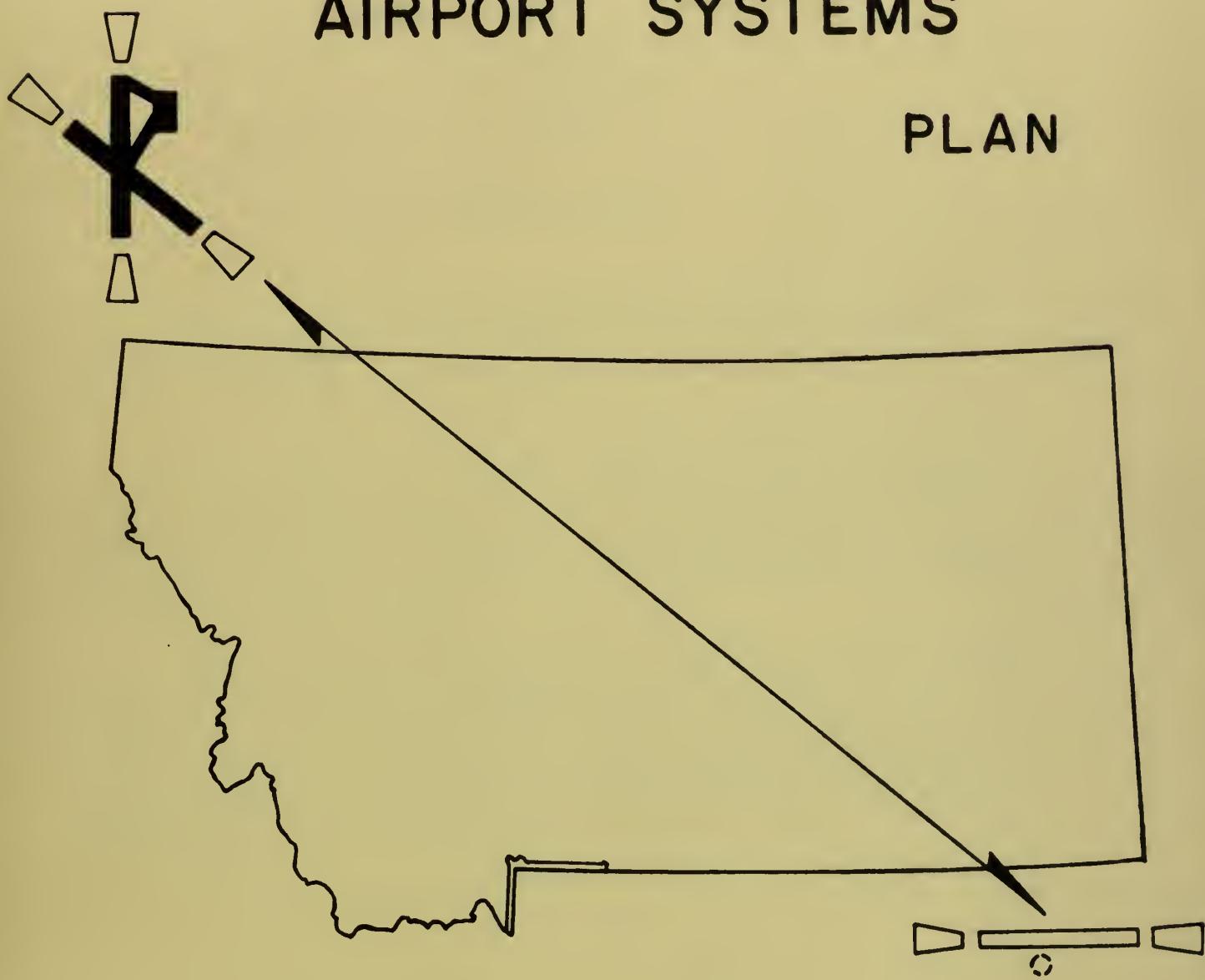
Airport Systems

# INTERIM

## STATE

# AIRPORT SYSTEMS

## PLAN



PREPARED NOVEMBER 1968

BY THE

MONTANA AERONAUTICS COMMISSION



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# STATE OF MONTANA

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## AERONAUTICS COMMISSION

P. O. BOX 169B

HELENA, MONTANA

59601

## INTRODUCTION

The need for the preparation of State Airport Systems Plans has been recognized for some time by both the Federal Aviation Administration (FAA) and the National Association of State Aviation Officials (NASAO).

Particular problems facing Montana have been the transition by the major Trunk Carriers toward all jet-powered equipment, the growing equipment position by the Regional Carriers toward turbo prop and jet powered equipment and the entry into the scheduled air transportation field by the third level of scheduled air transportation, namely the Local Airlines.

This transition, coupled with the continuing healthy growth of general aviation aircraft toward the use of more "medium" twins and business jets, coupled with a growing higher percentage of interstate traffic from outside Montana, creates the absolute necessity of viewing the airport facilities problem from the "systems" point of view rather than treating each individual community's airport as an "island" unto itself.

  
\_\_\_\_\_  
Director



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A very faint, large watermark-like image of a classical building with four prominent columns and a triangular pediment occupies the background of the page.

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<http://archive.org/details/interimstateairp7097mont>

## FORWARD

### BACKGROUND

In dealing with airports as such for the State of Montana, all too often the intermediate range planning has been for the development of an airport facility tailored to only the immediate needs of the area relative to the class of equipment then operated by the scheduled air carrier, and the class of equipment then utilizing the airport in the general aviation segment of the industry.

In the past a community's entry into the National Airport Plan has too frequently been determined merely by the community and project eligibility under the Federal Aid to Airport Program as established by the Federal Aviation Administration, without too much regard to the intermediate and long-range potential developments for the area when considering the long-range potential socio-economic factors.

### OBJECTIVES

The primary objectives of the State Airport Systems Plan are:

1. To provide a plan for the orderly and timely development of a system of airports adequate to meet the aeronautical needs and air transportation needs of the state.
2. To provide a framework for airport development programs consistent with the short, intermediate and long-range needs.
3. To prepare a plan in content, standards, criteria and format such that it can be integrated into the National Airport Plan.
4. To provide a basis for coordination of airport plans with the planning by state, metropolitan and urban agencies in the areas of transportation, land use, economic development and resource utilization; and for the coordination with airport systems plans in adjoining states.



5. To inform local, state and national political individual interests of aviation facilities requirements.
6. To provide a document for use at local level in (a) preliminary planning, (b) master planning, (c) detail planning, (d) estimating cost of development.
7. To identify the general location of all airports by type and size that will be required to make air transportation reasonably accessible to every community in the state.
8. To make possible long-range coordination of airport development, air navigation facilities, airspace use, and air traffic control procedures.

#### AUTHORITY

RCM 1-103. Declaration of policy. It is hereby declared that the purpose of this act is to further the public interest and aeronautical progress by providing for the protection and promotion of safety in aeronautics; by cooperating in effecting a uniformity of the laws relating to the development and regulation of aeronautics in the several states; by revising existing statutes relative to the development and regulation of aeronautics so as to grant to a state agency such powers and impose upon it such duties that the state may properly perform its function relative to aeronautics and effectively exercise its jurisdiction over persons and property within such jurisdiction, may assist in the promotion of a statewide system of airports, may cooperate with and assist the political subdivisions of this state and others engaged in aeronautics, and may encourage and develop aeronautics; by establishing uniform regulations, consistent with federal regulations and those of other states in order that those engaged in aeronautics of every character may so engage with the least possible restriction, consistent with the safety and the rights of others; and by providing for cooperation with the federal authorities in the development of a national system of civil aviation and for co-ordination of the aeronautical activities of those authorities and the authorities of this state by assisting in accomplishing the purposes of federal legislation and eliminating costly and unnecessary duplication of functions.



James C. Buckley, Inc. At the request of a large number of cities in the State of Montana served by regular scheduled air transportation, the Montana Aeronautics Commission secured approval from the State Board of Examiners on February 18, 1966 to enter into a contract with James C. Buckley, Inc., of New York City to accomplish a preliminary study for the purpose of establishing the scope of a total scheduled air transportation survey and the extent of technical information needed and available, and the projected costs for such a study. The preliminary report "The Need for a Comprehensive Investigation of the Aviation Requirements of the State of Montana" was prepared and delivered to the Commission October 25, 1966.

T.A.P., Inc. On September 18, 1967, as a second step in the comprehensive study of scheduled air transportation in the State of Montana, the Montana State Board of Examiners extended approval to the Aeronautics Commission to enter into a contract for such a study with T.A.P., Inc., Bozeman, Montana, for the purpose of establishing the overall scope of a survey of airports and scheduled air transportation needs through the scheduled trunk lines, regional airlines, and the local airlines or "commuter airlines" for the State of Montana.

A phase of this study incorporates "Airport Activity and Related Physical Facilities" and sets forth the responsibility of secondary sources such as staff members of the Montana Aeronautics Commission and the staff of local airport boards.

## PURPOSE

It is the intent of the Montana Aeronautics Commission to develop a comprehensive State Airport Plan for the airport SYSTEM during the calendar years of 1969 and 1970.

However, there is an urgent need at this time for a preliminary basis from which to develop the comprehensive plan. Consequently, the INTERIM State Airport System Plan is pre-



pared at this time (November, 1968) for the following reasons:

- (1) To bring the need of a state airport system plan to the attention of the members of the 41st Legislative Session.
- (2) To assist the Federal Aviation Administration with the information necessary for the preparation of the National Airport Plan.



#### TIME PERIOD

The SHORT RANGE term of the plan will be for a period of two to five years based primarily on immediate needs and indicates contemplated immediate development needs for the next two bienniums ( 1970 - 1971 ),( 1972 - 1973 ).

\*\*\*

The INTERMEDIATE RANGE for the plan will be a period of ten years. However, in the Preliminary Interim Plan the intermediate range shall apply to all programmed and planned projects not currently carried in the short range term.

\*\*\*

The LONG RANGE time period for the plan shall be twenty years and will be developed in accordance with the future air transportation projections at the time that the comprehensive State Airport Systems Plan is developed in 1969 and 1970.







## STATE DATA SCHEDULE

### STATE OF MONTANA STATISTICS

Population	717,000
Area	146,997 square miles
Population Density	4.94 persons per square miles

### PUBLIC AIRPORT STATISTICS

Public Airports	116
Heliports	6
Seaplane Bases	0
Airport Density	7,903 square miles per airport

Facilities	Lighted	Unlighted	Total
Paved Airports	45	11	56
Unpaved Airports	14	46	60
			116

#### Airports by Runway Length (Longest Runway)

Under	3000	4000	5000	6000	7000	8000	9000
3000	3999	4999	5999	6999	7999	8999	9999
29	54	16	8	2	2	4	1

Total Origin and Destination Passengers in State for year 1966

CAB O&D reported passengers 438,850

Ratio of 61.2 passengers per 100 population

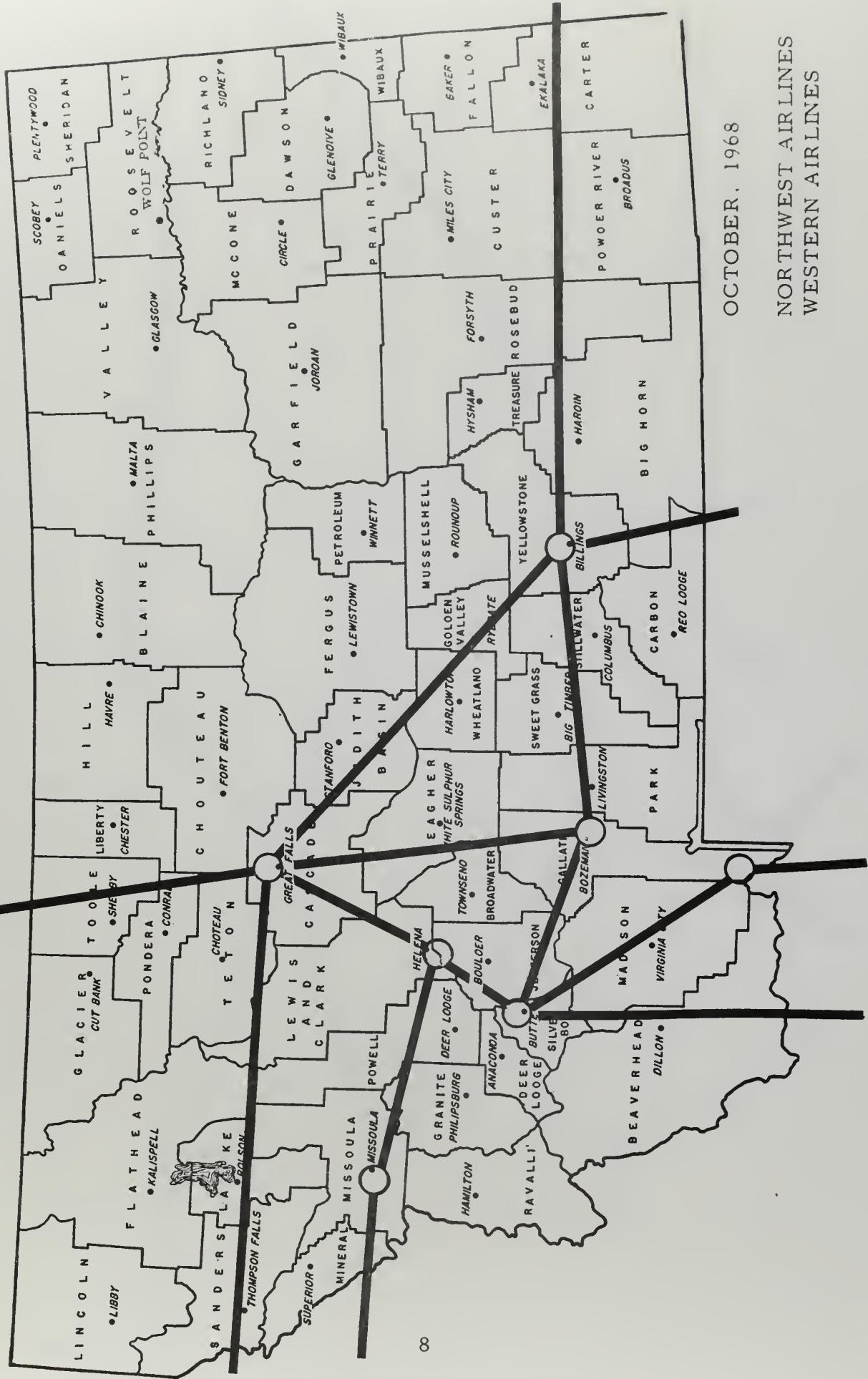
The Federal Aid to Airport Program of the Federal Aviation Administration has provided funds to the following extent during the period 1947 to December 31, 1966:

Federal Funds:	Sponsors Funds:	Total:	Airports:	Projects:	
Montana	\$7,617,000	\$6,810,000	\$14,427,000	51	168

on only those projects for which federal funds were requested.

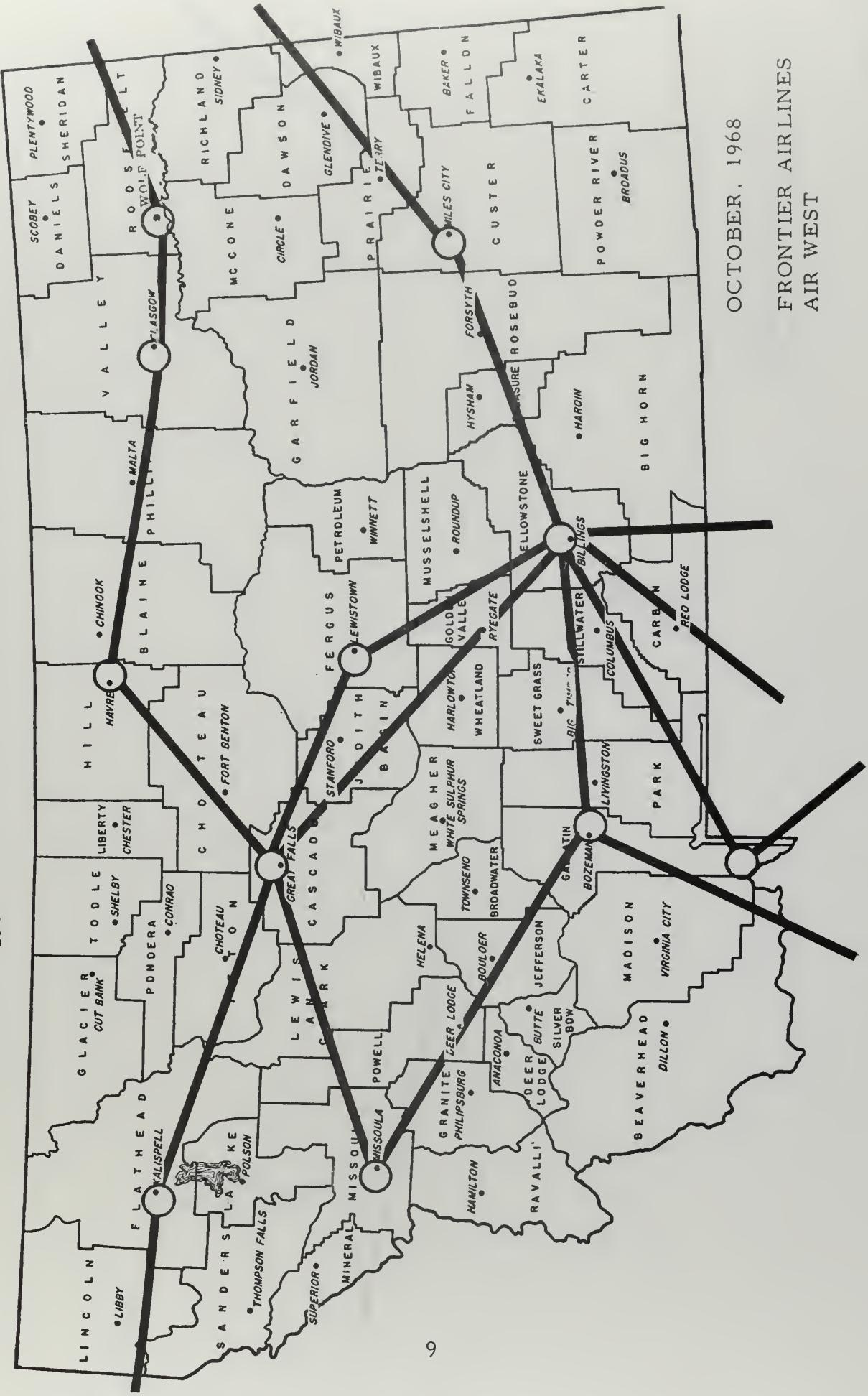


TRUNK ROUTES





REGIONAL CARRIER ROUTES

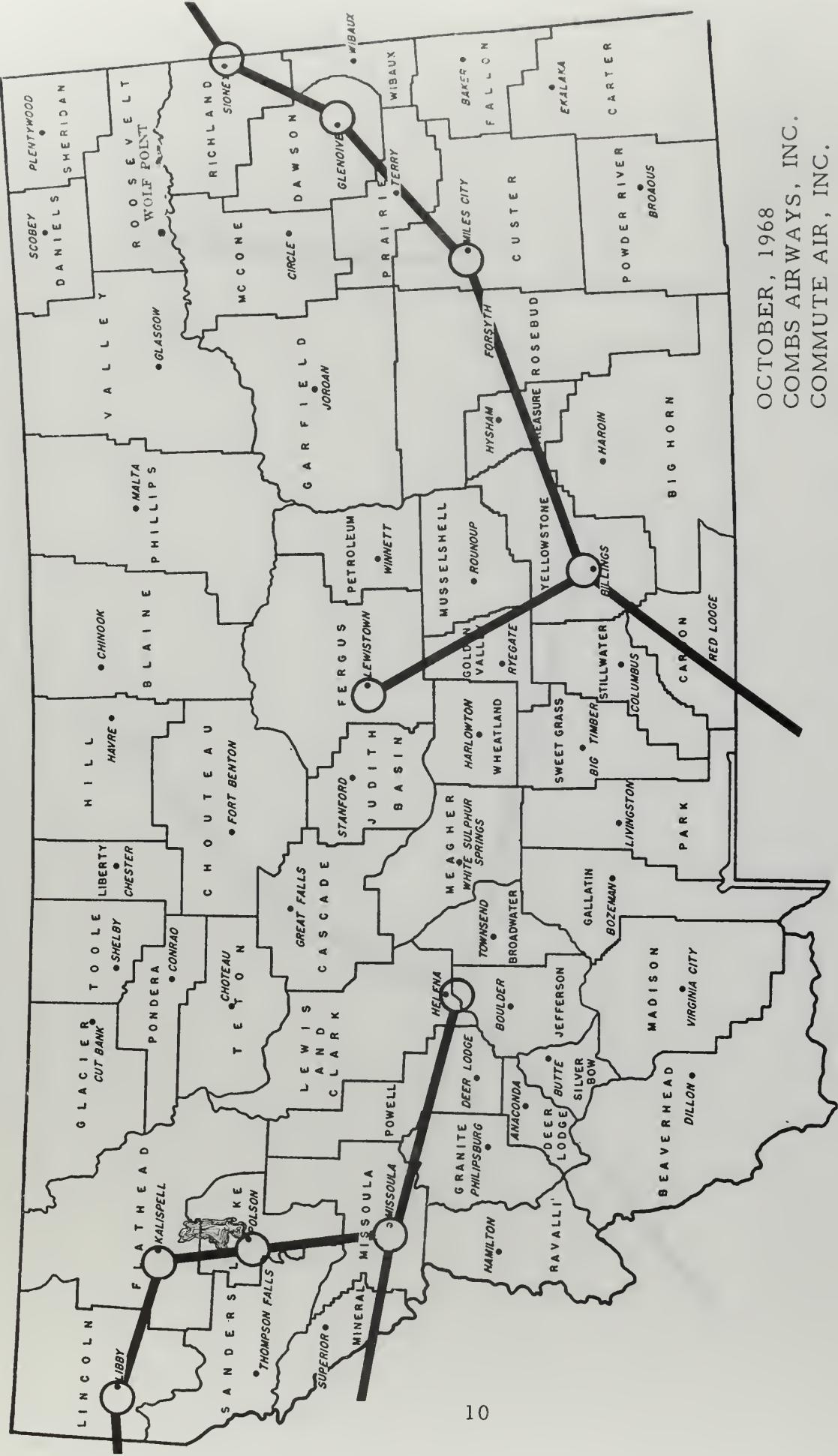


OCTOBER, 1968

FRONTIER AIR LINES  
AIR WEST



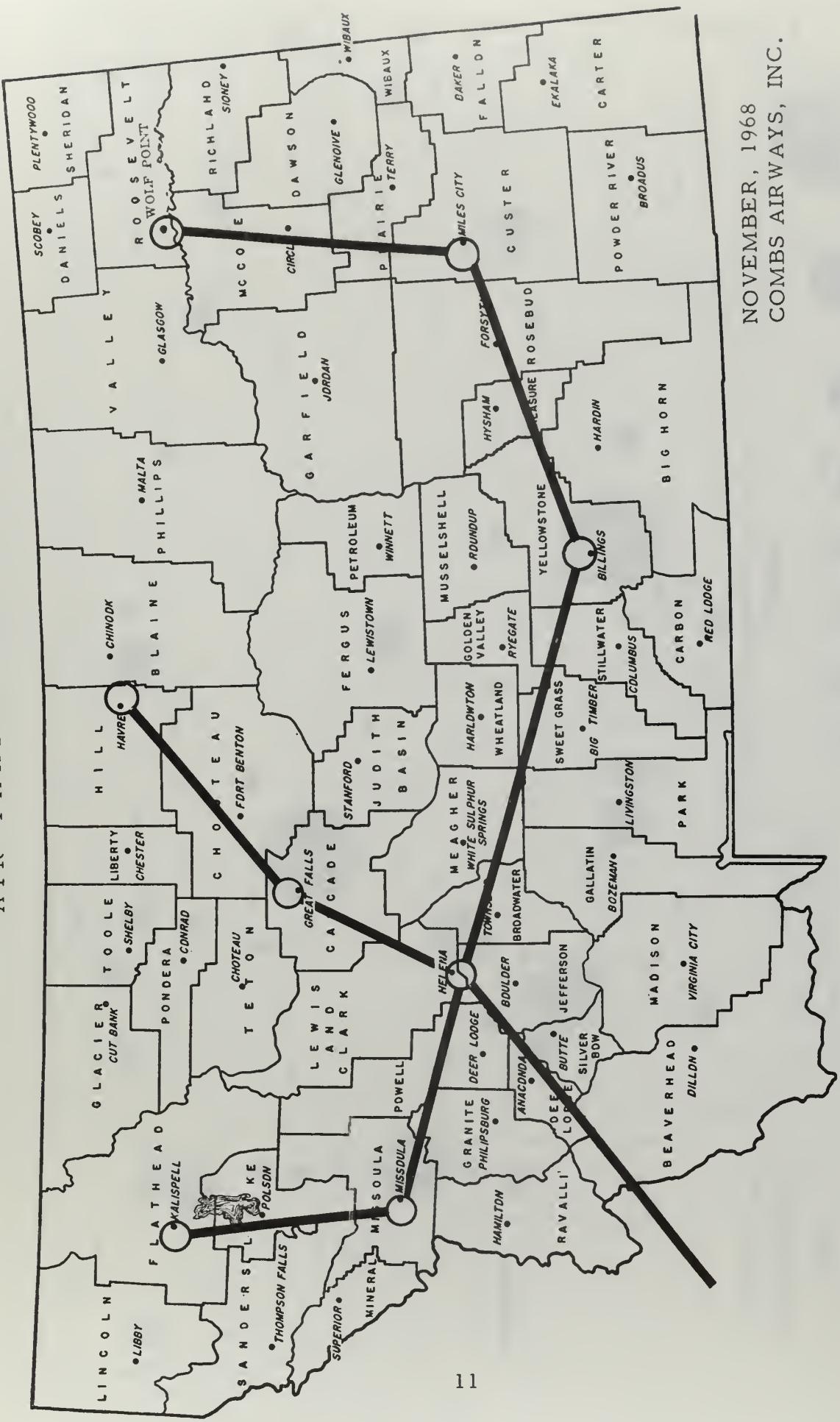
## LOCAL AIR CARRIER ROUTES



OCTOBER, 1968  
COMBS AIRWAYS  
COMMUTE AIR



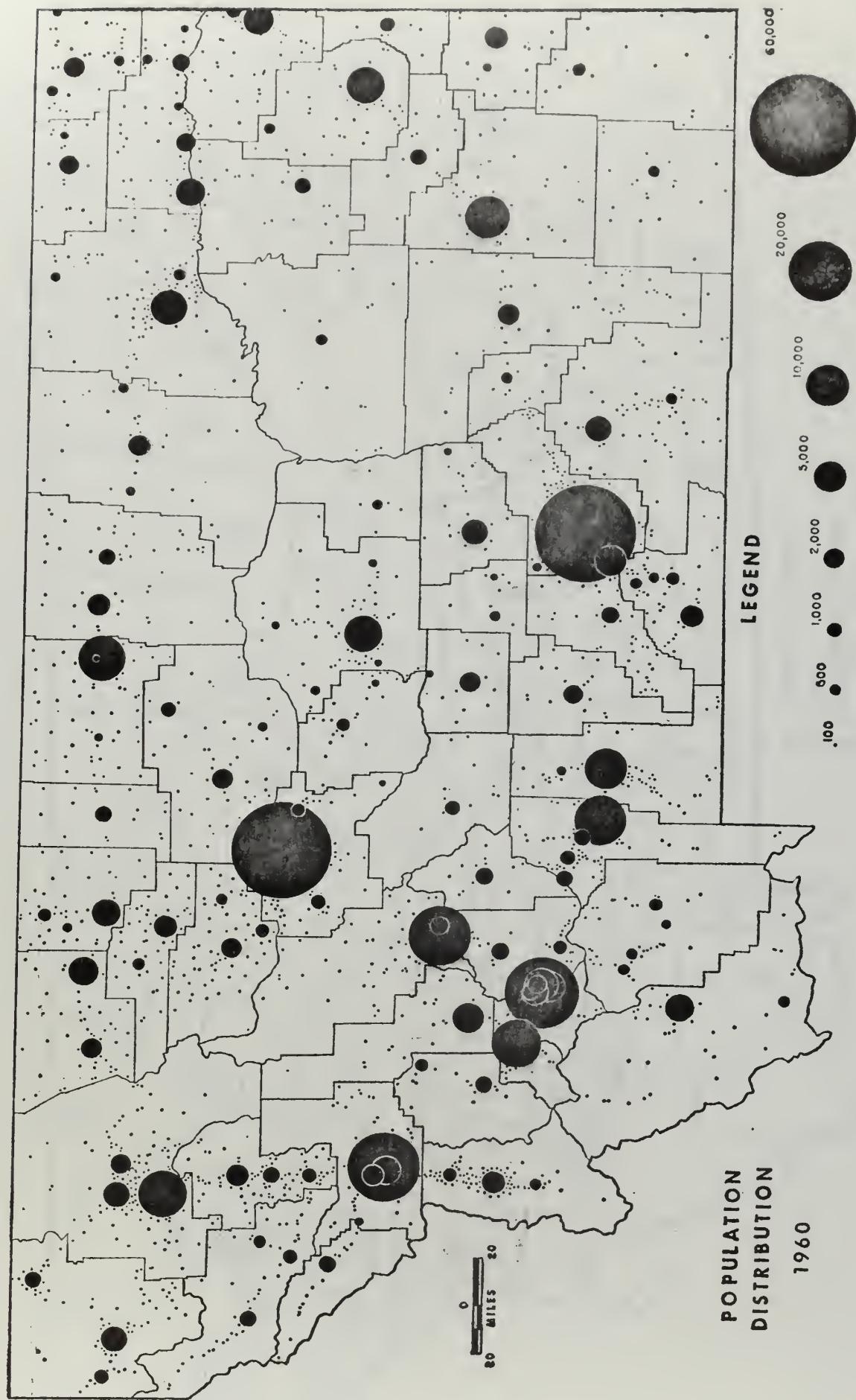
AIR TAXI MAIL ROUTES



NOVEMBER, 1968  
COMBS AIRWAYS, INC.

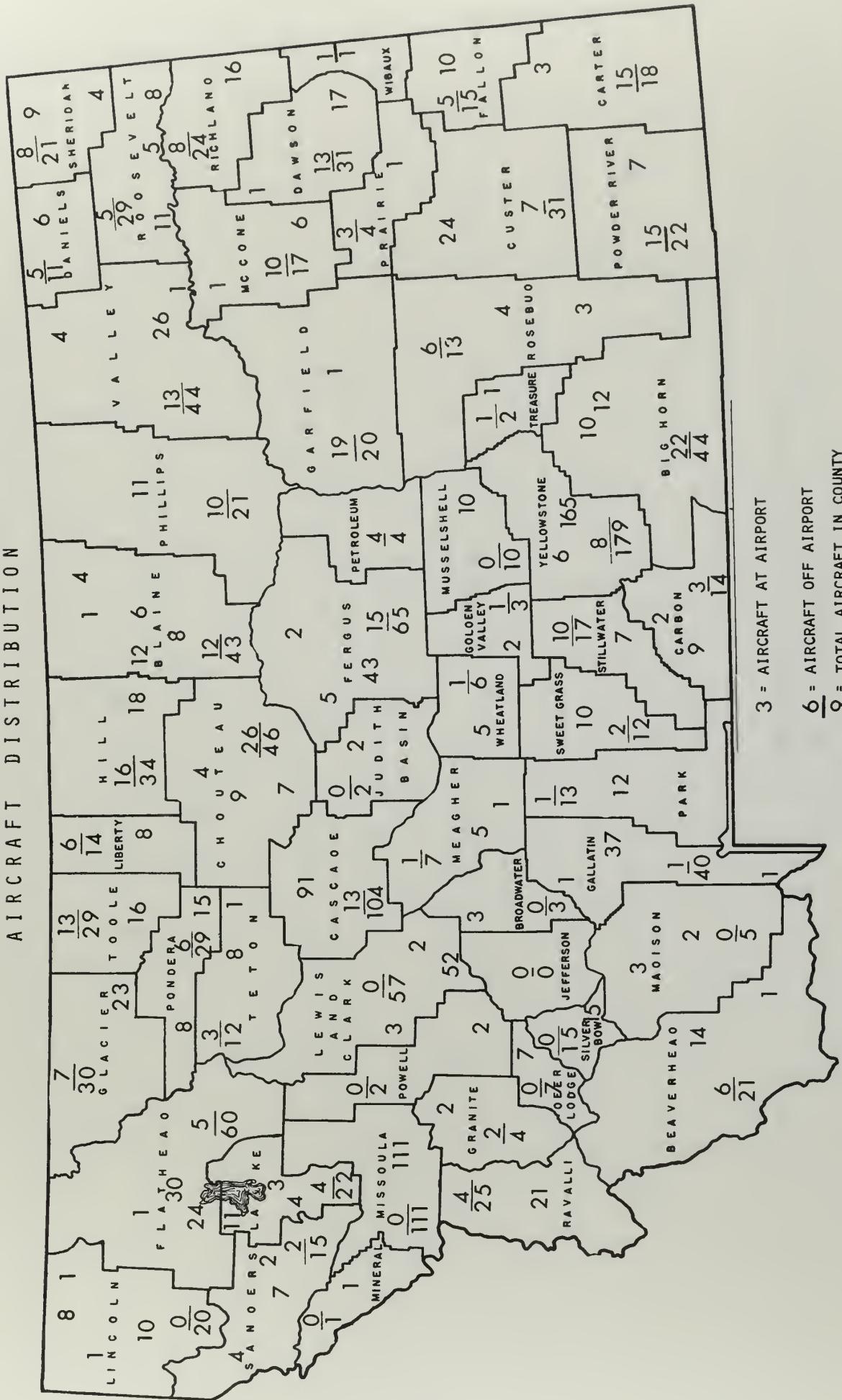


POPULATION DISTRIBUTION





## AIRCRAFT DISTRIBUTION



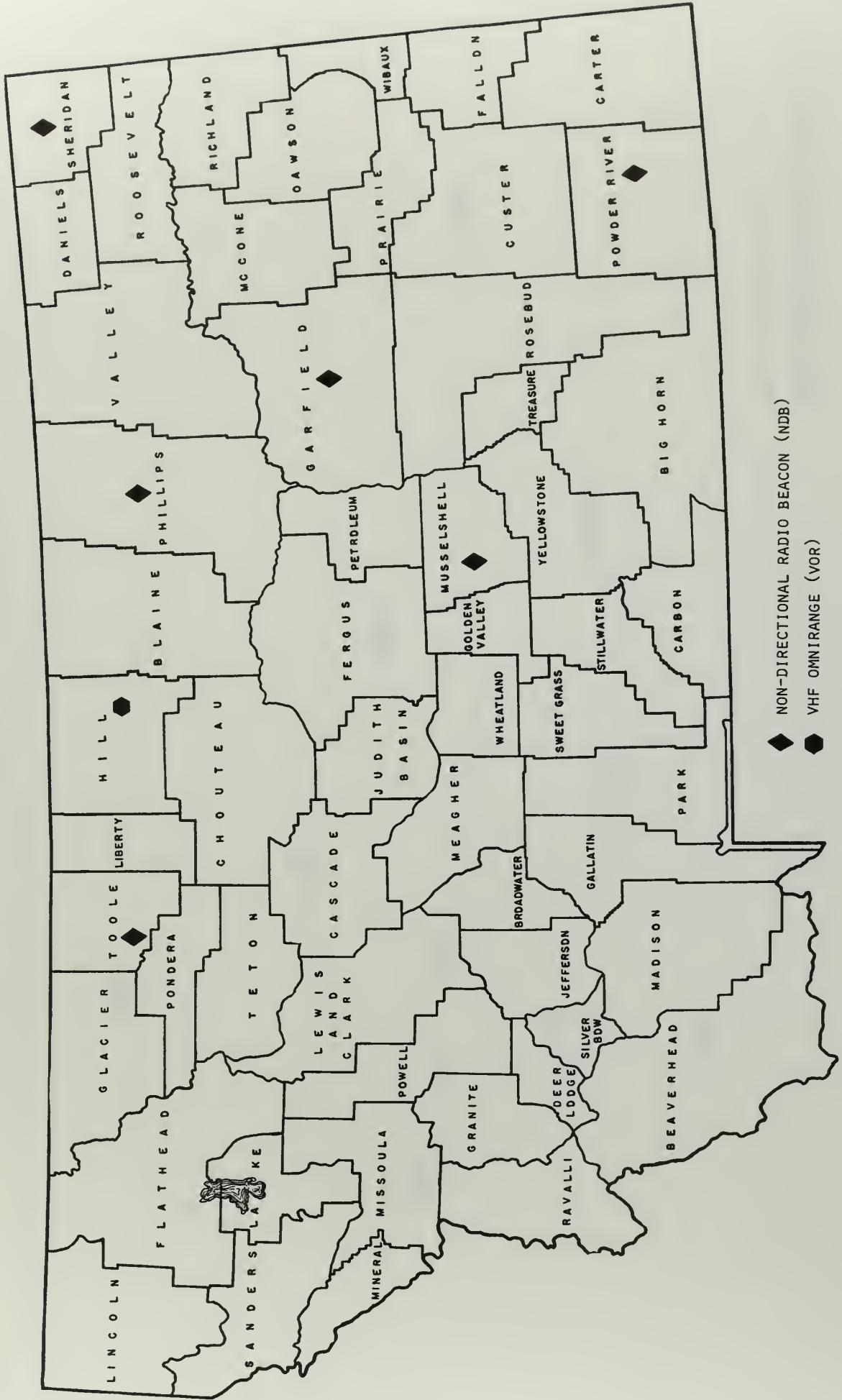
3 = AIRCRAFT AT AIRPORT

6 = AIRCRAFT OFF AIRPORT

9 = TOTAL AIRCRAFT IN COUNTY



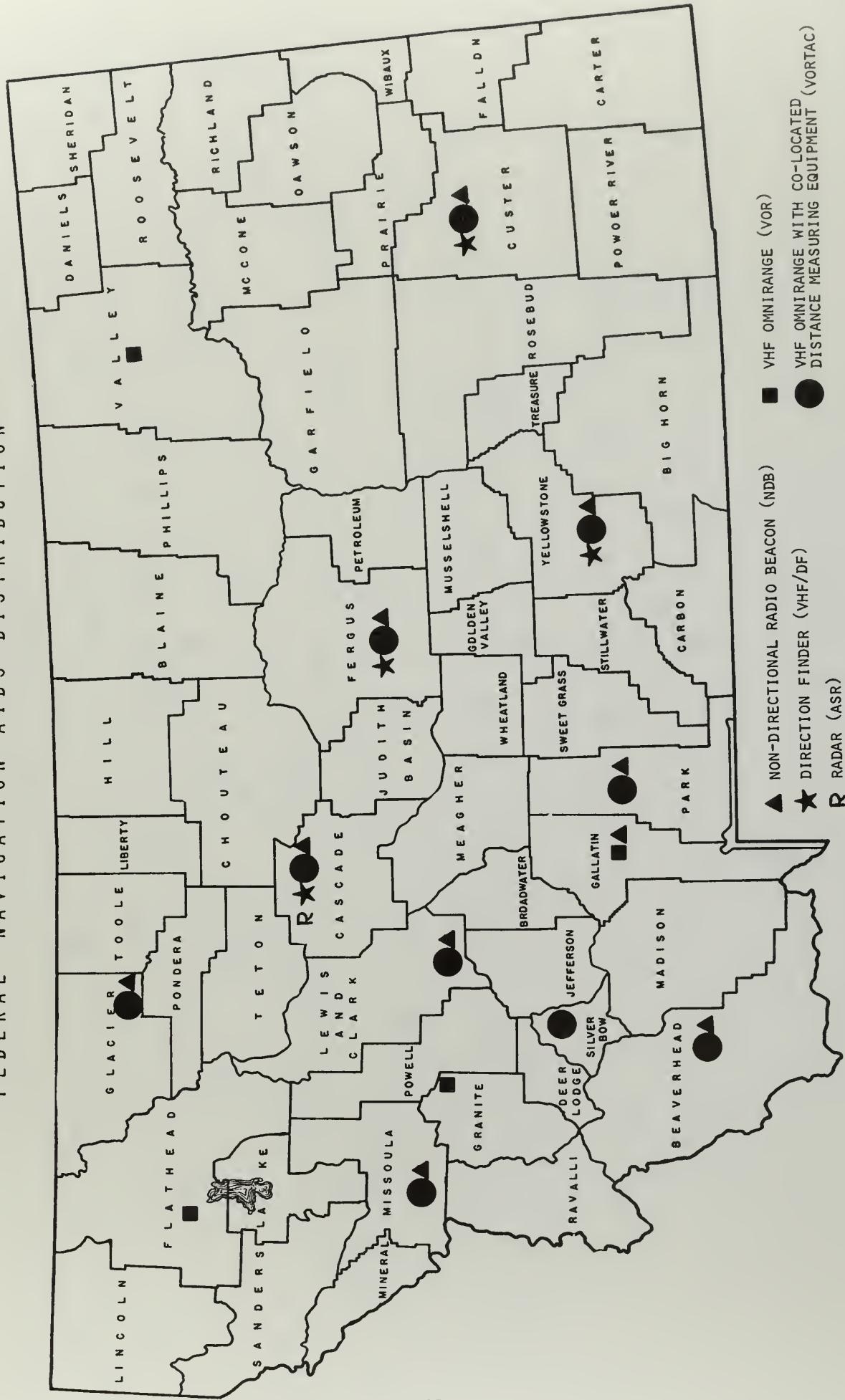
STATE NAVIGATION AIDS DISTRIBUTION



◆ NON-DIRECTIONAL RADIO BEACON (NDB)  
◆ VHF OMNI RANGE (VOR)

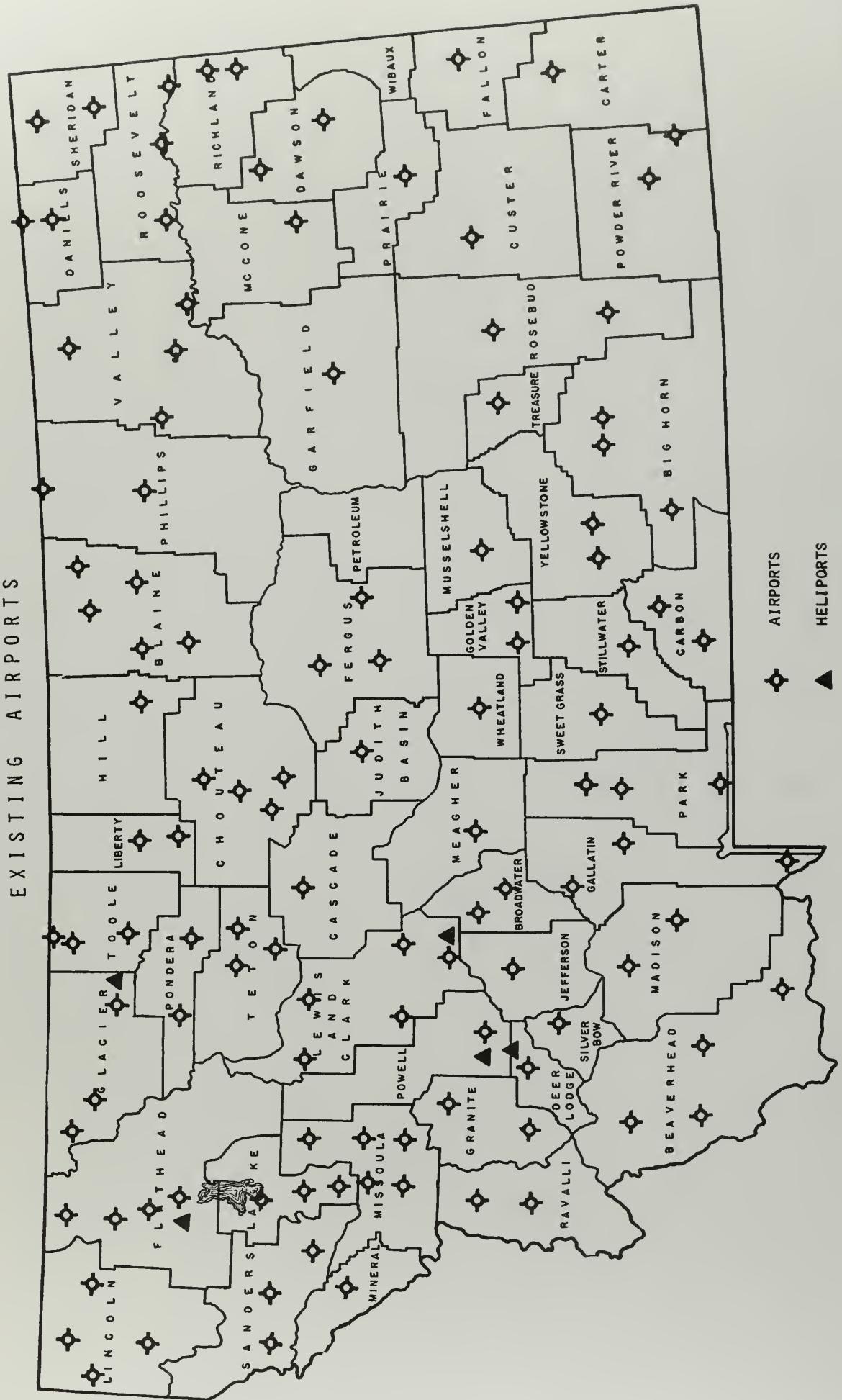


FEDERAL NAVIGATION AIDS DISTRIBUTION





## EXISTING AIRPORTS





## EXISTING AIRPORT DATA

The following pages provide an inventory of the Public Use Airports by County, showing in chart form the basic physical facilities and services available. The glossary will explain by column the terms and abbreviations used in this section.

### Explanation of Terms

#### Column

##### No.

1    Place Name  
      Airport Name  
      Ownership

Name of City/Town/Location  
Name of the airport  
City, County, City-County, or Private

2    Class

The airport configuration based on the intended use by runway dimensions and obstruction clearance criteria.

a.    LFL

Landing Facility Less than minimum standards accepted by Montana Aeronautics Commission and/or Federal Aviation Administration.

b.    LFG

Landing Facility General Aviation Utility Airport; Montana Aeronautics Commission design standard, runway length equal to Federal Aviation Administration's "Secondary" airport, but with lesser requirements for transitional surfaces, building lines, and property widths.

c.    LFS

Landing Facility Secondary; Federal Aviation Administration design standard used prior to establishing the "Utility" type airport. The runway length was determined by the "critical" aircraft (low powered, long take off run required) likely to be using the airport. This class of airport encompasses all general aviation airports constructed with Federal Aid prior to 1966.

d.    B

Basic Utility airport (current FAA standard), planned to accommodate 95 percent of the general aviation fleet, except for transport types and some twin-engine aircraft of over 8,000 pounds gross weight. For purposes of stage development, the "B" airport is further subdivided into Stages I and II.



Stage I will accommodate most single-engine and some twin-engine aircraft. The design runway length is 2200 feet corrected for elevation and temperature. This provides a 3400 to 4500 foot runway at Montana's elevation and summer temperatures. Stage I accommodates 75 percent of the general aviation fleet.

Stage II provides the final stage of the "B" airport: 2700 feet of runway at sea level or 3800 - 6000 feet in Montana.

e. G

General Utility airport accommodates all of the current general aviation fleet except certain jet and transport-type aircraft: 3800 feet of runway at sea level or 4300 - 6100 feet in Montana.

f. LG

Larger than General Utility airports serve general aviation's larger transport and jet aircraft. The runway length may be as long as required for air carrier operations, however, the runway width, runway strength, and building restrictions line requirements are less.

g. AC

Scheduled Air Carrier airports are used by Civil Aeronautics Board and state certificated air carriers which use transport category aircraft.

h. H

Heliports are airports constructed for use by helicopters only.

3. Elev

Elevation is the highest point on the runway.

4. Surf

Surface of the runway.

a. Asph

Asphalt surface - dense mix such as a hot mix.

b. RdMx

Road Mix, a mixed-in-place bituminous surface.

c. DBS

Double Bituminous Surface, two layers of chips, one 3/4 inch and one 3/8 inch bound by bituminous material, placed on an aggregate base.



d. SBS      Single Bituminous Surface, 3/8 inch chips bound by bituminous material, placed on an aggregate base.

e. STAB      Stabilized Turf surface, the existing soil on the runway has been stabilized by adding gravel.

f. Turf      Turf surface, existing soil prepared and seeded with spreading, strong rooted grasses.

g. Sod      Sod surface, the existing surface with a very minimum of grading with native grasses.

5. Lgth      Length of the runway(s).

6. Strength      Strength of the runway; ability to support the gross weight of an aircraft as follows:

a. S M      Single Wheel type main landing gear   gross weight "M" (1000's of pounds).

b. D M      Dual wheel type main gear   gross weight "M" (1000's of pounds).

c. DT M      Dual Tandem type main gear   gross weight "M" (1000's of pounds).

7. Ltng      Lighting, the type of lights installed on the airport as follows:

a. B      Rotating Beacon

b. L      Field Lighting

- (1) 2      Airport boundary lights
- (2) 4      Low intensity Runway lights
- (3) 5      High intensity Runway lights
- (4) 8a      Instrument Approach (U. S. Standard)
- (5) 9      Instrument Approach, Sequence flashing lights



		(6) <u>10</u>	Visual Approach Slope Indicator (VASI)
		(7) <u>11</u>	Runway End Identifier Lights (REIL)
		(8) <u>12</u>	Short Approach Light System (SALS)
8.	<u>Com</u>		<u>Communications</u> , all radio communication available at the airport:
	a. <u>Unicom</u>	(1) <u>U1</u>	122.8 MHz
		(2) <u>U2</u>	123.0 MHz
		(3) <u>U3</u>	123.05 MHz
	b. <u>FSS</u>		<u>Flight Service Station</u>
	c. <u>TWR</u>		<u>Control Tower</u>
	d. <u>AR</u>		<u>Area Radio</u> (remoted to a FSS not located on the airport, with voice communication through the associated navigation aid.)
	e. <u>LRCO</u>		<u>Limited Remote Communications Outlet</u> (Remoted to a FSS not located on the airport, not associated with a navigation aid.)
	f. <u>CST</u>		<u>Combined Station/(control) Tower</u> , the FSS and TWR are one combined facility.
	g. <u>APC</u>		<u>Approach Control</u> , controls inbound Instrument traffic.
	<u>Navaid Data</u>		<u>Radio Navigations Aids</u>
9.	<u>Facilities</u>		The Radio Navigation Aid serving the airport, IFR (with an approved instrument approach) and VFR (for visual flight rules only). This column assumes all facilities as IFR unless specifically stated as VFR.
	a. <u>NDB</u>		<u>Non Directional Radio Beacon</u> , a low or medium-frequency radio homing beacon transmitting non-directional signals keyed to provide an identification code.



- b. VOR  
VHF (Very High Frequency) Omnidirectional Range, a modern, very accurate radio navigation aid operating in the 108-118 MHz frequency range.
- c. VORTAC  
A VOR with colocated Tactical Air Navigation distance measuring equipment, providing heading information (VOR) plus distance from the station information (tac).
- d. B VORTAC  
or  
B VOR  
The "B" indicates the facility has scheduled weather broadcasts at 15 and 45 minutes after the hour.
- e. (H) BVOR  
The "(H)" indicates the facility is usable at all altitudes; "(L)" indicates the facility usable only up to 18,000 feet; "(T)" indicates the facility serves only a terminal area hence only up to 12,000 feet.
- f. H-SAB  
Non-directional radio beacon providing automatic transcribed weather service.
- g. MHW  
Non-directional radio beacon without voice facilities on the range frequency.
- h. ILS  
Instrument Landing System consists of a compass locator, outer marker, middle marker, localizer and glide slope.
- i. ASR  
Airport Surveillance Radar, a ground radar facility available to control aircraft, normally limited to a 50 mile radius around an airport.
- j. RVR  
Runway Visual Range, an electronic facility used to determine the visibility (sight distance) along the approach to a runway.
- k. VHF/DF  
Very High Frequency Direction Finder, used to determine the azimuth of an aircraft from the ground station.
- l. FM  
Fan Marker, radio location marker radiating a vertical signal on 75 MHz.



10

IFR APPR

Instrument Approach as published in Part 97 of the Federal Aviation Regulations for weather conditions below visual flight rules minimums.

- a. VOR An approach using a VOR facility for guidance to a runway.
- b. VORDME Same as VOR with the addition of distance measuring equipment.
- c. ILS Instrument Landing System provides an approach path for exact alignment and descent on final approach to a runway.
- d. LOC Same as ILS except the descent guidance is deleted.
- e. ADF Automatic Direction finding uses a NDB, H-SAB, or MHW facility for guidance.
- f. Radar Airport Surveillance Radar provides radar position of aircraft by azimuth and range data without elevation data.

Transportation Data

11

## A/C

Air Carrier

## a. Trunk Air Carrier

- (1) NWA Northwest Airlines
- (2) WAL Western Airlines

## b. Regional Air Carrier

- (1) AWA Air West Airlines
- (2) FAL Frontier Airlines

## c. Local Airlines

- (1) CBS Combs Airways
- (2) CMT Commute Air



12	<u>135</u>	<u>Part 135</u> of the Federal Aviation Regulations; Air Taxi Operators, this column shows if charter flights are available.
13	<u>S/T</u>	<u>Surface Transportation</u>
	a. <u>T</u>	Taxi
	b. <u>R</u>	Rental Cars
	c. <u>L</u>	Limousine



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)			
	Class	Elev	Surf.	Runways	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
BEAVERHEAD Dell Dell Flight Strip State of Montana	B	6114	Asph	5000	S- 30M	BL2	U1				
Dillon Beaverhead County Beaverhead County	LFS 16/34 LFL 7/25 LFL 3/21	5328	Asph	4000	S- 12M	BL5	FSS	VOR - 1 NDB(VFR only) (H)BVORTAC			Yes T
Jackson Hirschy-Jackson Private	LFL	6400	Sod	4000			U1				
Wisdom Wisdom Beaverhead County	LFL	6126	Sod	3500							
BIG HORN Crow Agency	LFL	3240	SBS	3827							
Fort Smith Yellowtail Dam National Park Service	LFL	2911	DBS	3500							
Hardin Fairgrounds Airpark Big Horn County	LFL	2911	DBS	3500							Yes



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)		
	Class	Elev	Surf.	Runways		Facility	IFR Appr.	A/C	135	S/T
				Lgth.	Strength					
Hardin Hardin Municipal Big Horn County	LFS 10/28 LFL 16/34	3040	Turf	3500 2850						
Lodge Grass										
BLAINE Chinook Chinook Municipal Blaine County-City of Chinook	LFG	2410	SBS	3900	S-12M BL4	U1				
Chinook Hebbelman Private	LFL 4/22 LFL 11/29 LFL 7/25	2576	Sod	2900 2400 2200		U1				
Harlem Riggin Memorial Blaine County-City of Harlem	LFL 10/28 LFL 15/33	2560	DBS	3200	S-12M BL4					
Hays										
Hogeland Hogeland Blaine County	LFL	3150	Sod	2300						



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA						Transportation Data (Served by)		
	Class	Elev	Surf.	Runways	Nav aids	IFR Appr.	A/C	135	S/T
Turner Turner Blaine County	LFL 10/28 LFL 5/23	3040	Turf	2700 2500					
BROADWATER Canyon Ferry Reservoir Canyon Ferry State of Montana	LFS	3820	Turf	3400					
Townsend Townsend Town of Townsend- Broadwater County	LFL	3850	Asph	4100	S-12M B	U1			
CARBON Bridger Bridger Municipal City of Bridger	LFL	3713	SBS	3000	S-12M B	L4			
Red Lodge Red Lodge City of Red Lodge- County of Carbon	LFS 16/34 LFL 3/21	5762	DBS	4000	S-12M Turf	BL4 2300			
CARTER Alzada	LFG	3485	STAB	3400					
Ekalaka Ekalaka Carter County									



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	Class	Elev	Surf.	AIRPORT DATA				Transportation Data (Served by)			
				Runways	Lgth.	Strength	Lng.	Com	Facility	IFR Appr.	A/C
CASCADE Cascade	AC	3671	Asph	8997	S-65M D-95M DT-170M	BL5, 6, 8a, 9	TWR FSS APC U2	NDB H-SAB (H)BVORTAC ILS RVR	ILS R/W34 VOR-1 VORDME-1 ADF-1 Radar-1	NWA WAL AWA FAL	Yes
Great Falls Great Falls International al	AC 16/34			6996	S-50M D-70M DT-105M						
City of Great Falls	LG	7/25		5008	S-35M D-50M						
Great Falls Montana Deaconess Hospital Heliport											
CHOUTEAU Big Sandy Big Sandy City of Big Sandy- Chouteau County	LFL 6/24 LFL 13/31	2700		Turf	2470		BL4				
Carter Carter Chouteau County	LFL	3200		Sod	2200						
Fort Benton Fort Benton City of Fort Benton- County of Chouteau	LFS	2884	DBS	3400	S-12M	BL4	U1				



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Ownership	AIRPORT DATA							Transportation Data (Served by)				
	Class	Elev	Surf.	Lgth.	Strength	Ltng.	Com	Navaids	IFR Appr.	A/C	135	S/T
Geraldine Geraldine City of Geraldine- County of Chouteau	LFS	3180	DBS	2900	S-12M	BL4	U1			FAL	Yes	T R
CUSTER										CBS		
Miles City Miles City City of Miles City	AC 12/30	2628	Asph	5600	S-1115M	BL5	FSS	VOR-1 (H)BVOR TAC VHF/DF	VOR DME-1 VOR DME R/W 22 ADF-1			
	LG 4/22				6311							
Miles City Pine Hills School Heliport												
DANIELS												
East Poplar East Poplar State of Montana	LFL	2475	Sod	3300			U1					
Scobey Scobey City of Scobey-County of Daniels	LFS 12/30	2432	DBS	2800	S-12M	BL4	U1					
	LFL 7/25		Sod	1950								
	LFL 16/34		Sod	2250								
DAWSON												
Glendive Dawson Community Airport City of Glendive-Coun- ty Dawson	AC 12/30	2476	Asph	5700	D-53M	BL5	U1			CBS	Yes	T R
	B 2/20		Stab	3000								



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	Class	Elev	AIRPORT DATA						Transportation Data (Served by)		
			Runways	Nav aids	Facility	IFR Appr.	A/C	135	S/T		
Winifred Winifred City of Winifred- County of Fergus	LFL	3300	Turf 2350	BL4					T		
FLATHEAD Big Fork											
Columbia Falls Veteran's Home Hel- iport	LFG	2935	Rdmx 3660	S-8M	B	AR U1			Yes	T R	
Kalispell Kalispell City City of Kalispell	H			Asph	6M	L4	AR			T R	
Kalispell Kalispell General Hospital Heliport	AC	2972	Asph	5578	S-55M D-85M DT-160M	BL6	AR U1		VOR-1	AWA CMT	
Kalispell Flathead County Airport	LG	1/19		4462	S-60M D-115M DT-190M					T R	
Flathead County	LG	7/25		4722	S-60M D-115M DT-190M						
Marias Pass		11/29									



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

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Place Name Airport Name Ownership	AIRPORT DATA								Transportation Data (Served by)			
	Class	Elev	Surf.	Runways	Lgth.	Strength	Lng.	Com	Facility	IFR Appr.	A/C	S/T
Polebridge Polebridge State of Montana	LFL	3625	Turf	2350							R	
West Glacier											T	
Whitefish North Valley Commun- ity Hospital Heliport	LFL	3066	Sod	2600							R	
Whitefish Whitefish Flathead County											T	
GALLATIN Bozeman Gallatin Field Gallatin County-City of Bozeman	AC 12/30 AC 16/34	4462	Asph	9000	D-200M		BL5 U1	FSS U1	NDB H-SAB (L) BVOR	VOR R/W 12 ADF-1	T L R	
Three Forks Three Forks City of Three Forks	G 3/21				5100	S-32M D-55M DT-92M						
Three Forks Three Forks City of Three Forks	LFS 1/19 LFL 17/35	4081	Turf	3140			BL4					
West Yellowstone Yellowstone Airport State of Montana	AC	6644	Asph	8400	D-115M		BL5 U1	LR CO U1		WAL FAL	Yes R	



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership		AIRPORT DATA						Transportation Data (Served by)						
		Class	Elev	Surf.	Runways	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
GARFIELD	LFG	2663	RdMx	3200	S-12M	BL4	U1	NDB (VFR only)						
Jordan														
Jordan														
Garfield County														
GLACIER	LFS	4500	Stab	3860				U1						
Babb														
Babb														
State of Montana	LFS	4650	Turf	4000				U1						
Browning														
Starr-Browning														
State of Montana														
Cut Bank	LG	3854	Asph	5985	S-55M	BL5								
Cut Bank	I3/31				D-80M									
City of Cut Bank-Glacier County	LG	4/22			DT-130M									
East Glacier	H				6240	S-55M								
Cut Bank					D-80M									
Cut Bank Memorial Hospital Heliport					DT-130M									
GOLDEN VALLEY	LFG	3490	Turf	3500										
Lavina														
Lavina														
Golden Valley County														



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

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Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)			
	Class	Elev	Surf.	Runways	Lng.	Com	Facility	IFR Appr.	A/C	135	S/T
Ryegate Ryegate Golden Valley County	LFG	3700	Stab	3440	B						
GRANITE Drummond Drummond Granite County	LFL	4245	Turf	2600	BL2	AR	(L)BVOR	VOR-1	FAL	Yes	T
Philipburg Philipburg Granite County	LFG	5212	RdMx	3600	S-12M						
HILL Havre Havre City/County City of Havre-Hill County	AC	2585	Asph	5200	S-40M D-50M DT-75M	BL5	AR U1	(L)BVOR	VOR-1		
Rocky Boy											
Rudyard											
JEFFERSON Boulder Boulder Jefferson County	LFG	5068	Turf	3900							
Boulder Boulder River School Heliport											



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA						Transportation Data (Served by)			
	Class	Elev	Runways Surf.	Lghth.	Strength	Lng.	Com	IFR Appr.	A/C	135
Whitehall							(H)BVORTAC			
JUDITH BASIN Hobson	LFG	4285	SBS	3500	S-8M	B				
Stanford Stanford Judith Basin County	11/29 LFL 7/25		Sod	2200						
LAKE Polson Polson City of Polson-Lake County	B	2936	Asph	3500	S-12M	BL4				
Ronan Ronan City of Ronan-Lake County	LFS	3082	Stab	3250		BL4				
St. Ignatius St. Ignatius Town of St. Ignatius- Lake County	LFL	2990	Turf	2500						
Swan Lake Swan Lake Youth For- est Camp Heliport										



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA						Transportation Data (Served by)				
	Class	Elev	Surf.	Runways	Ltng.	Com	Navaids	IFR Appr.	A/C	135	S/T
LEWIS & CLARK Augusta Augusta-McBratney Lewis & Clark County	LFG	4145	Turf	4300	B						
Benchmark Benchmark U. S. Forest Service	B	5431	Asph	6000	S-45M						
Helena Helena City of Helena, Lewis & Clark County	AC 8/26	3873	Asph	7000	S-100M D-115M DT-115M S-4M	BL5 11 U2	CST APC	NDB(VFR only) (H)BVORTAC	VOR-1 VORDME-1	NWA WAL CMT	Yes T R
Lincoln Lincoln State of Montana	B 11/29 5/23			5100		4500 S-16M D-23M					
Wolf Creek Ox-Bow State of Montana	LFG	4597	DBS	4000	S-12M	B					
LIBERTY Chester Liberty County Liberty County	LFS	3169	DBS	3000	S-12M	BL4	U1				



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

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Place Name Airport Name Ownership	AIRPORT DATA						Transportation Data (Served by)						
	Class	Elev	Surf.	Runways	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
Tiber Dam Tiber Dam State of Montana	LFL	3012	Sod	2600									
LINCOLN Eureka Eureka Town of Eureka	LFL	2680	Stab	3200			BL4						
Fortine Vredenburg Private	LFL	3140	Turf	3500									
Libby Libby Lincoln County	G	2500	Asph	4200	S-26M		BL5						
Roosville	LFL	2017	SBS	2330									
Troy Troy U. S. Forest Service													
MC CONE Circle Circle McCone County	B	2424	Asph	3000	S-12M								
Rock Creek State Park	LFL	12/30	Sod	2600									
	3/21												



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA						Transportation Data (Served by)						
	Class	Elev	Runways	Surf.	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
MADISON Ennis Sportsman's Field Private	LFL	4985	Turf	3667									
Twin Bridges Twin Bridges Town of Twin Bridges	LFS LFS LFS LFS	4772 16/34 12/30 8/26	Stab	3450 3200 3450									
Twin Bridges Childrens Center Heli- port													
MEAGHER White Sulphur Springs White Sulphur Springs Town of White Sulphur Springs - Meagher County	B 2/20 LFL	5060 12/30	Stab	4200 Sod									
MINERAL Superior Superior Mineral County	LFG	2777	Rdmx	3400									
MISSOULA Clinton Rock Creek Elliot Field State of Montana	LFL	3540	Sod	3800									



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership		AIRPORT DATA								Transportation Data (Served by)			
		Class	Elev	Surf.	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
Condon Condon U. S. Forest Service		LFL	3884	Turf	2600								
Evardo Evardo Private		LFL	3936	Sod	2840			U1					
Missoula Johnson-Bell Field Missoula County		AC	3203	Asph	7046	D-100M	BL6	TWR FSS U2	NDB H-SAB (L)BVOR TAC	VOR-1 VOR DME-1 ADF-1	NWA FAL CMT	Yes	T L R
Missoula Seeley Lake Missoula County		LG	11/29			5897	S-25M D-35M						
Missoula Community Hospital Heliport		LG	16/34			4480	S-25M D-35M						
Seeley Lake Seeley Lake Missoula County		LG	7/25										
MUSSELSHELL Mestone		LFG	4037	Stab	3500		B						
Roundup Roundup City of Roundup-Mus- selshell County		LFG	4/22	3490	RdMx	3450	S-12M	BL4	U1	NDIB (VFR only)	Yes		
			16/34		Sod	3000							
			8/26		Sod	3100							



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)			
	Class	Elev	Surf.	Runways	Lngt.	Strength	Nav aids	IFR Facility	IFR Appr.	A/C	135
PARK Chico Hot Springs Gardiner Gardiner Park County	LFL	5300	Sod	3200			U1				
Livingston Mission Field City of Livingston-Park County	LFS 4/22 8/26 14/32	4656 Asph Sod Sod	4200 3930 3620	S-110M	BL2	FSS	NDB(VFR only) (L)BVORTAC	VOR-1		T R	Yes
Wilsall Wilsall Park County	LFG	5100	Sod	3100							
PETROLEUM Winnett											
PHILLIPS Saco Hot Springs											
Malta Malta City of Malta- Phillips County	LFS 7/25 LFL 12/30	2280 Turf	DBS 2400	S-12M	BL4	U1	NDB(VFR only)				Yes
Morgan Morgan Phillips County	LFL	2813	Sod	3000							



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)		
	Class	Elev	Surf.	Runways	Lngth.	Strength	Facility	IFR Appr.	A/C	S/T
PONDERA Conrad Conrad Pondera County	LFS 5/23	3537	Asph	3600	S- 12M	BL5	U1			Yes
Valier Valier City of Valier	LFL 10/28 LFL 4/22 LFG 7/25	3820	Turf	3000		B	U1			
POWDER RIVER Bell Creek Bell Creek Private	LFL	3600	Stab	2706			L4			
Broadus Broadus Powder River County	LFG	2992	Stab	3100			BL4			NDB (VFR only)
POWELL Deer Lodge Deer Lodge City of Deer Lodge- Powell County	LFS	4688	DBS	3800	S- 12M		BL4			T
Deer Lodge State Prison Heliport	II		Conc							T



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	Class	Elev	AIRPORT DATA				Transportation Data (Served by)				
			Runways	Surf.	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C
Elliston											
Ovando											
PRAIRIE											
Terry	LFL	2260	Sod	2600							
Terry	10/28										
Prairie County	LFL			2500							
RAVALLI											
Hamilton	LFS	3640	DBS	4200	S-8M		B1L4	U1			
Hamilton											
City of Hamilton,											
Ravalli County											
Hamilton											
Marcus Daly Memorial											
Hospital Heliport											
Stevensville	LFL	3620	Stab	3000							
Stevensville											
Ravalli County											
RICHLAND											
Fairview											
Fairview											
Richland County											



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)					
	Class	Ellev	Surf.	Length	Strength	Lngt.	Com	Facility	Nav aids	IFR Appr.	A/C	135	S/T
Sidney Sidney-Richland Muni- cipal Richland County	AC	1978	Asph	4250	S-30M D-57M	BL4	U1				CBS	Yes	T
ROOSEVELT Culbertson Culbertson Roosevelt County	LFS	1953	DBS	3000	S-8M	BL5	U1						
Poplar Poplar Roosevelt County	LFS 9/27 LFL 4/22	2006	DBS	3000	S-12M	BL5	U1						
Wolf Point Wolf Point Roosevelt County	AC	1985	Asph	5100	S-38M D-50M	BL5	U1				FAL	Yes	
ROSEBUD Ashland Ashland Private	LFL	2931	Stab	2800		BL4	U1						
Colstrip Colstrip Private		7/25 LFS 13/31		3627									



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Serviced by)			
	Class	Elev	Surf.	Runways	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
Plentywood Sher-Wood City of Plentywood-Sheridan County	LFS 12/30 LFL 4/22 LFL 16/34 LFL 7/25	2250 DBS Sod 2000 Sod 2000 Sod 2600		3200 S-12M BL4 U1		NDB (VFR only)			Yes		
SILVER BOW Butte Silver Bow County Silver Bow County	AC 15/33 LG 11/29 LG 2/20		Asph 8000 DT-195M	S-65M D-110M DT-195M S-45M D-80M S-45M D-80M DT-130M	BL5 U2	(L)BVORTAC FM(HOMESTAKE)VOR-2 VOR DME-1	VOR-1 VOR-2 VOR DME-1	NWA WAL	Yes	T R	
Tri-City											
STILLWATER Absarokee											
Columbus Columbus City of Columbus	LFL	3575	DBS	2600 S-12M BL4 U1							
Rapelje											Yes



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)		
	Class	Elev	Surf.	Runways	Lngth.	Strength	Facility	IFR Appr.	A/C	S/T
SWEET GRASS Big Timber Big Timber City of Big Timber- Sweet Grass County	B	4483	RdMx	4650	S- 4M	BL5	U1			
	6/24	Sod		3400						Yes
	LFG									
	18/36									
TETON Choteau Choteau City of Choteau- Teton County	B	3945	RdMx	3800	S- 12M	BL4	U1			
	5/23	Stab		2600						Yes
	16/34									
	LFL	3695	Turf	2780		BL4				Yes
Dutton Dutton Town of Dutton, Teton County	LFS	3990	Sod	3600			U1			
	2/20			1000						
	LFL	7/25								
Fairfield Fairfield City of Fairfield- Teton County	LFS	3425	RdMx	3700	S- 12M	BL5	U1			
	5/23	Stab		3100						ADF- 1
	LFS	11/29								
	LFL	3399	Sod	2650						
TOOLE Shelby Shelby Toole County	LFS	3425	RdMx	3700	S- 12M	BL5	U1			
	5/23	Stab		3100						
	LFS	11/29								
	LFL	3399	Sod	2650						
Sunburst Sunburst Toole County	LFS	3425	RdMx	3700	S- 12M	BL5	U1			
	5/23	Stab		3100						
	LFS	11/29								
	LFL	3399	Sod	2650						



EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	Class	Elev	AIRPORT DATA				Nav aids	IFR Appr.	Transportation Data (Served by)		
			Runways	Lgth.	Strength	Ltng. Com			A/C	135	S/T
Sweetgrass Ross International State of Montana	LFL	3550	Sod	3000			U1				
TREASURE Hysham Hysham Treasure County	LFG	2624	Stab	3000							
VALLEY Fort Peck Fort Peck U. S. Government	LFS	2294	Sod	3325							
Glasgow Glasgow International City of Glasgow, Valley AC County	AC	2298	Asph	5000	S-68M D-90M DT-136M	BL5	U1	(H) BVOR VOR-1	FAL	Yes	T R
Hinsdale Hinsdale Valley County	LFL	2180	Sod	2100							
Nashua	LFL	10/28		1800							
	LFL	16/34									



EXISTING AIRPORT DATA BY COUNTY AND PLACE, NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)				
	Class	Elev	Surf.	Runways	Lngt.	Strength	Com	Facility	IFR Appr.	A/C	135	S/T
Opheim Opheim City of Opheim, Valley County	LFS 16/34 LFL 4/22 LFL 10/28	3264 Turf	3100	BL4								
WHEATLAND Harlowton Harlowton Municipal City of Harlowton	LFL 8/26 LFL 11/29 LFL 16/34	4214 Turf	3200	BL2	U1							
Judith Gap												
WIBAUX												
YELLOWSTONE Billings Logan Field City of Billings	AC 9/27	3606 Asph	8600	S-130M D-200M DT-400M	BL5 6 8a 9	TWR FSS APC U2	NDB H-SAB (H) BVORTAC VHF/DF RVR ILS	ILS R/W 9 ADF R/W 9 LOC R/W 27 VOR R/W 9 VOR DME R/W 27	NWA WAL FAL CBS	Yes	T R	
AG 16/34												
AC 4/22												



## EXISTING AIRPORT DATA BY COUNTY AND PLACE NAME

Place Name Airport Name Ownership	AIRPORT DATA							Transportation Data (Served by)					
	Class	Elev	Surf.	Runways	Lgth.	Strength	Ltng.	Com	Facility	IFR Appr.	A/C	135	S/T
Huntley	LFL	3515	DBS	2850	S-12M	B	U1						T
Laurel	13/31												
Laurel	LFL	1620	Sod										
City of Laurel	7/25												
	LFL	4000	Turf										
	2/20												



COMMUNITY DATA BY COUNTY

County	Place Name	FBO	Border Cross.	County Seat	Based Aircraft	1960 Pop.	Remarks
BEAVERHEAD	Dell				21	7,194	INTL.
	Dillon	Yes			1	35	The term "international airport" means any airport designated by the Secretary of the Treasury or the Commissioner of Customs as a port of entry for aircraft arriving in the United States from any place outside thereof and for cargo carried on such aircraft.
	Jackson				14	3,690	
	Wisdom					60	
						180	
	BIG HORN				44	10,007	
	Crow Agency					600	
	Fort Smith						
	Hardin	Yes					
	Fairgrounds						
BLAINE	Municipal						
	Lodge Grass						
					10	687	
					12		
	Chinook	Yes					
	Municipal						
	Hebbelman						
	Harlem						
	Hays						
	Hogeland						
BROADWATER	Turner						
					1	600	
	Canyon Ferry				4	80	
	Townsend	Yes				175	
					3	2,804	
					6	1,267	
						8	
CARBON	Bridger	Yes					
	Red Lodge						
					14	8,317	
					2	824	
CARTER					9	2,278	
					18	2,493	
						50	Isolation
	Alzada	Yes			3	738	
	Ekalkaka						



COMMUNITY DATA BY COUNTY

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County	Place Name	FBO Cross.	Border County Scat	Based Aircraft	1960 Pop.	Remarks
CASCADE	Cascade Great Falls GTF Interna- tional Airport Montana Deac- oness Hospital Heliport	Yes  INTL.	Yes  91	104  58, 500	73, 418 604 58, 500	
CHOOTEAU	Big Sandy Carter Fort Benton Geraldine			46  Yes  Yes	7, 348 954 120 1, 887 364	
CUSTER	Miles City Pine Hills School Heliport	Yes		31  Yes  Yes	13, 727 9, 800	
DANIELS	East Poplar Scobey	Yes	LRA	11	3, 755 1, 726	
DAWSON	Glendive Richey	Yes		Yes  1	31 17 1	12, 314 7, 058 480
DEER LODGE	Anaconda Galen State Hosp. Heliport	Yes			7 7	18, 640 12, 054



COMMUNITY DATA BY COUNTY

County	Place Name	FBO Cross.	Border Seat	County Aircraft	Based	1960 Pop.	Remarks
FALLON	Baker	Yes		Yes	15 10	3,997 2,365	
	Denton				65 5	14,018 410	
	Lewistown	Yes			43 2	7,408 220	
FERGUS	Winifred				60	32,965 500 2,132	
	Big Fork						
	Columbia Falls						
	Veterans Home						
	Heliport						
	Kalispell	Yes					
	Kalispell City						
	Kalispell Gen-						
	eral Hospital						
	Heliport						
FLATHEAD	Flathead County	Yes					
	Marias Pass						
	Polebridge						
	West Glacier						
	Whitefish						
	North Valley						
	Community						
	Hospital Heli-						
	port						
GALLATIN	Bozeman	Yes				40 37	26,045 13,361
	Three Forks	Yes				1	1,161
	West Yellowstone	Yes				1	620



COMMUNITY DATA BY COUNTY

County	Place Name	FBO Cross.	Border Cross.	County Seat	Based Aircraft	1960 Pop.	Remarks
GARFIELD	Jordan			Yes	20 1	1,981 557	
GLACIER	Babb Browning Cut Bank Cut Bank Memorial Hos- pital Heliport East Glacier		INTL.	Yes	30 23	11,565 50 2,011 4,539	
						400	
GOLDEN VALLEY	Lavina Ryegate			Yes	3 2	1,203 212 314	
GRANITE	Drummond Philipsburg			Yes	4 2	3,014 577 1,107	
HILL	Havre Rocky Boy Ruddyard		INTL.	Yes	34 18	18,653 11,100 75 600	
JEFFERSON	Boulder Boulder River School Heliport Whitehall			Yes		4,297 1,394	898



COMMUNITY DATA BY COUNTY

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County	Place Name	FBO Cross.	Border County Seat	Based Aircraft	1960 Pop.	Remarks
JUDITH BASIN	Hobson Stanford		Yes	2	3, 085 207 615	
LAKE	Polson Ronan St. Ignatius Swan Lake Youth Forest Camp Heliport	Yes	Yes	22 11 4 3	13, 104 2, 314 1, 334 940	
				200		
LEWIS & CLARK	Augusta Benchmark Helena Lincoln Wolf Creek		Yes	57	28, 006 400	
				52	21, 800 3 400 2 175	
LIBERTY	Chester Tiber Dam		Yes	14	2, 624 1, 158	
LINCOLN	Eureka Fortine Libby Roosville Troy		Yes	20	12, 537 8 1, 229 1 100 10 2, 828	
McCONNE	Circle Rock Creek State Park		Yes	1	855	
				17	3, 321 6 1, 117	



## COMMUNITY DATA BY COUNTY

County	Place Name	FBO Gross.	Border Cross.	County Seat	Based Aircraft	1960 Pop.	Remarks
MADISON	Ennis Twin Bridges Childrens Center Heliport	Yes			5 2 3	5, 211 525 509	Virginia City, County Seat
MEAGHER	Ringling White Sulphur Springs				7 1	2, 616	
MINERAL	Superior				Yes Yes	5 1 1	1, 519 3, 037 1, 242
MISSOULA	Clinton Condon Evaro Missoula				111	44, 663 160	
	Johnson-Bell Missoula Com- munity Hospital Heliport Seeley Lake	Yes				27, 090	
MUSSELSHELL	Melstone Roundup					10	4, 888 266 2, 842
PARK	Chico Hot Springs Gardiner Livingston Wilsall	Yes				13	13, 168 25 650 8, 229 200



COMMUNITY DATA BY COUNTY

County	Place Name	FBO	Border Cross.	County Seat	Based Aircraft	1960 Pop.	Remarks
PETROLEUM	Winnett			Yes	4	894 360	
PHILLIPS	Saco Hot Springs	Yes		Yes	21	6,027	
	Malta						
	Morgan	LRA					
PONDERA	Conrad	Yes		Yes	29	7,653	
	Valier	Yes			15	2,665	
					8	724	
POWDER RIVER	Bell Creek			Yes	22	2,485	
	Broadus				7	628	
POWELL	Deer Lodge			Yes	2	7,004	
	State Prison				2	4,681	
	Heliport						
	Elliston						
	Ovando						
PRAIRIE	Terry			Yes	4	2,318	
					1	1,140	
RAVALLI	Hamilton	Yes			25	12,341	
	Marcus Daly				21	2,475	
	Memorial Hos-						
	pital Heliport						
	Stevensville						
							784



COMMUNITY DATA BY COUNTY

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County	Place Name	FBO Cross.	Border County Seat	Based Aircraft	1960 Pop.	Remarks
RICHLAND	Fairview			24	10,504 1,006 4,564	
	Sidney	Yes	Yes	16		
	Culbertson	Yes	29	11,731		
	Poplar	Yes	8	919		
ROOSEVELT	Wolf Point	Yes	5	1,565		
	Ashland	Yes	11	3,585		
	Colstrip		13	6,187		
	Forsyth		3	150		
ROSEBUD	Lame Deer			75		
	Heron			2,032		
	Hot Springs			300		
	Plains					
SANDERS	Thompson Falls					
			15	6,880		
				25		
				585		
SHERIDAN	Medicine Lake			7	769	
	Plentywood	Yes	Yes	4	1,274	
SILVER BOW	Butte			21	6,458	
	Tri-City				452	
					2,121	
STILLWATER	Absarokee					
	Columbus					
	Rapelic					



COMMUNITY DATA BY COUNTY

County	Place Name	FBO Cross.	Border Cross.	County Seat	Based Aircraft	1960 Pop.	Remarks
SWEET GRASS	Big Timber	Yes		Yes	12 10	3,290 1,660	
TETON	Choteau	Yes		Yes	12 8	7,295 1,966	
	Dutton				1	504	
	Fairfield					752	
TOOLE	Shelby	Yes		Yes	30 16	7,904 4,017	
	Sunburst					882	
	Sweetgrass		LRA			205	
TREASURE	Hysham			Yes	2 1	1,345 494	
VALLEY	Fort Peck				44 1	17,080 650	
	Glasgow	Yes	LRA	Yes	26	6,398	
	Hinsdale					400	
	Nashua					796	
	Opheim				4	457	
WHEATLAND	Harlowton				6	3,026	
	Judith Gap				5	1,734	
						185	
WIBAU	Wibaux			Yes	1	1,698 766	
YELLOWSTONE	Billings			Yes	179	79,016	
	Huntley			Yes	165	55,000	
	Laurel					250	
						4,601	



## PRIMARY DEMAND FACTORS OF SCHEDULED AIR TRANSPORTATION AIRPORTS

For definitional purposes, a trade area is defined as one which offers the contained population a complete shopping center and has caused the division of the State into 16 trade areas as presented in map form on the following pages.

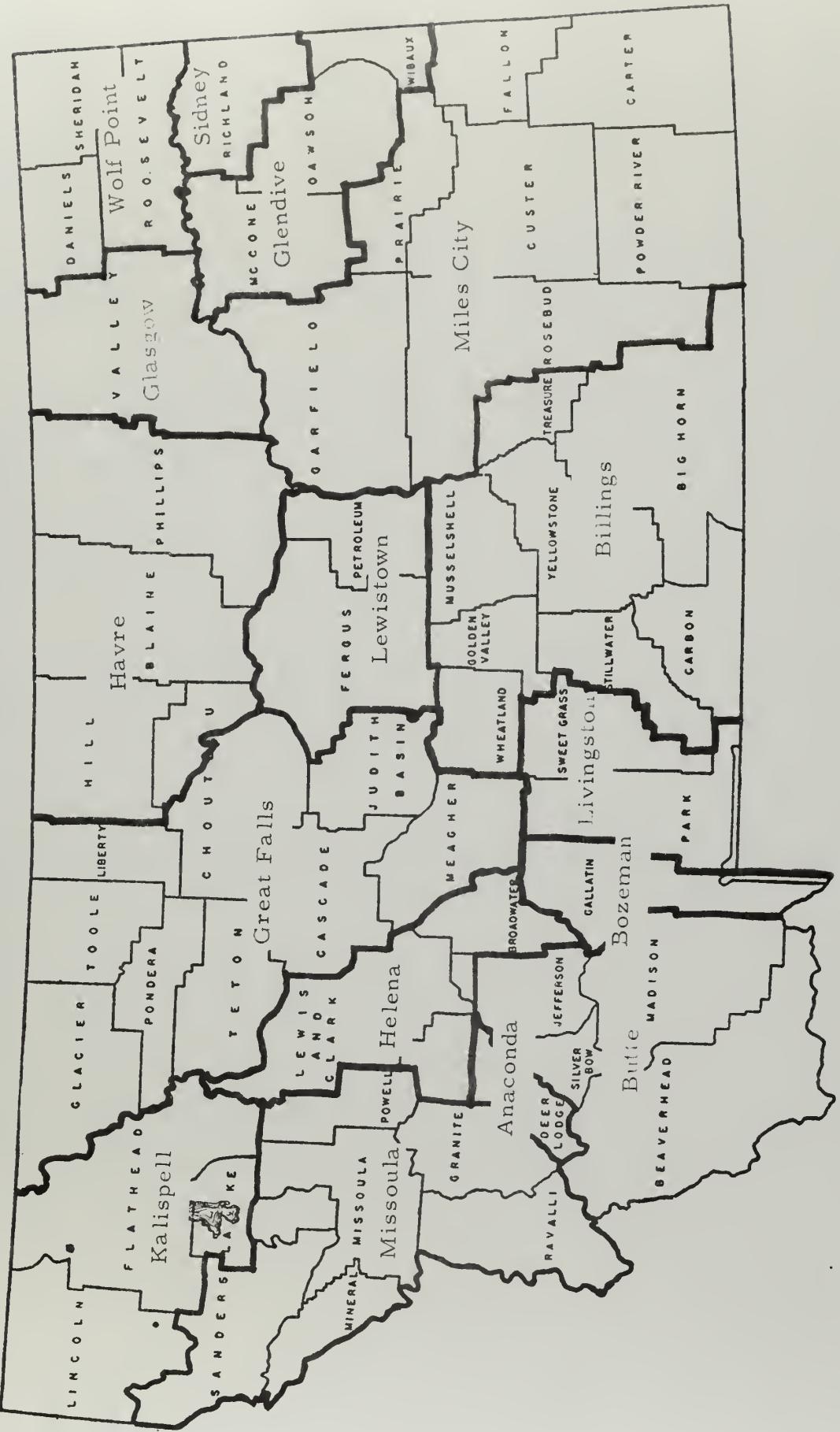
The schedule of demand factors for scheduled air transportation airports presents population data by trade area for 1960 with projections to 1975 and 1980 with reference to Chapter 1, "Montana's General Economic Profile" as presented by T. A. P., Inc., economic consultants, in the study entitled "Montana State Air Survey - 1968".

Airline O & D factors and projections for 1975 and 1980 are taken not only from the above-mentioned report, but further substantiated by Statistical Supplement No. 1, Tables 1 through 98, and Statistical Supplement No. 2, Tables 1 through 28 of the Montana State Air Survey - 1968.

Though air cargo tons reflected the actual for the air carrier cities as listed in the various trade areas, the projections for 1975 and 1980 were made on a state basis.



MONTANA TRADE AREAS





PRIMARY DEMAND FACTORS AIR CARRIER AIRPORTS

			Airline Passengers	O&D Passengers	Airline O&D Passengers	Air Cargo (Tons)		
	Trade Area	Population	1960	1975	1980	1966	1975	1980
Billings	113,328	144,179	156,536	176,890	429,230	546,030	573.46	
Bozeman	26,045	35,234	38,933	16,190	93,260	118,810	21.11	
Butte	61,738	72,878	77,507	52,940	111,530	148,280	64.73	
Glasgow	17,080	21,855	23,807	4,300	---	13,200	26.50	
Glendive	17,333	19,778	20,761	1,660	---	5,170	9.81	
Great Falls	123,508	153,735	166,112	170,990	408,560	519,060	288.47	
Havre	32,771	36,399	38,932	1,430	---	4,235	9.12	
Helena	32,228	39,306	42,244	28,770	93,260	118,810	37.53	
Kalispell	54,282	72,713	80,102	7,760	---	42,000	9.90	
Lewistown	14,912	16,454	16,289	2,740	---	8,140	8.56	
Miles City	32,688	36,065	37,590	2,950	---	7,892	5.75	
Missoula	76,570	99,138	108,205	58,850	203,440	264,450	77.79	
Sidney	10,504	12,299	13,067	2,510	---	7,398	9.09	
West Yellowstone	N/A	N/A	N/A	6,070	48,000	76,000		
Wolf Point	21,944	23,517	24,255	1,450	---	4,675	1.90	
STATE TOTAL						1147.00	3,364	5,401



SHORT RANGE PROJECTS FOR STATE SPONSORSHIP

<u>COUNTY</u>	<u>PLACE</u>	<u>PLANNED PROJECT</u>	<u>COST EST.</u>
Beaverhead	Dell	NDB	\$ 5,000
Big Horn	Fort Smith- Yellow Tail	Acquire and pavement on runway and apron	80,000
Carbon	Red Lodge	NDB	5,000
Cascade	Cascade	Construct new airport	50,000
Cascade	Great Falls Deaconess	Construct hospital heliport	15,000
Custer	Miles City	Construct Pine Hills School heliport	2,000
Fallon	Baker	NDB	5,000
Flathead	Big Fork	Acquire land and fence on stage development	70,000
Flathead	Columbia Falls	Soldiers Home heliport	2,000
Gallatin	West Yellowstone	NDB	15,000
Glacier	East Glacier	Construct short term landing strip	18,000
Hill	Rocky Boy	Construct new airport - Stage I	40,000
Hill	Rudyard	Construct new airport - Stage I	40,000
Jefferson	Boulder	Construct heliport	2,000
Judith Basin	Hobson	Acquire property and fence	40,000
Lake	Polson	NDB	5,000
<sup>6</sup> Lake	Swan Lake	Construct new heliport at Youth Camp	2,000
Lewis & Clark	Lincoln	Strengthen runway, taxi and apron, and obstruction removal	70,000
Lincoln	Libby	NDB	7,500
Madison	Twin Bridges	Construct heliport at Children's Center	2,000
Missoula	Missoula	Construct hospital heliport at Missoula Community Hospital	
Petroleum	Winnett	Construct new airport	10,000
Ravalli	Hamilton	Construct hospital heliport at Marcus Daly	40,000
Ravalli	Hamilton	NDB	5,000
Richland	Fairview	Construct runway-taxiway and apron in Stage II	5,000
Silver Bow	Butte	NDB	30,000
			5,000
			TOTAL
			\$570,500

\*FAPP



## DEVELOPMENT RECOMMENDATIONS

The following pages provide a convenient format for the presentation of airport development recommendations for three (3) time periods. The short range planning period encompasses the present through fiscal year 1973; the intermediate planning period, 1973-1980; and the long range planning period, 1980-1990.

The "Description of Recommended Development" shows those items recommended for the short and interim (intermediate) periods only.

The "Cost" column (short range) shows the dollar value for Montana Aeronautics Commission sponsored projects or a cost code number only for all other sponsors.

The "Intermediate" ("Work" and "Cost") column shows the work, and the cost of the work, to be accomplished during this period by number codes which are explained later. No attempt at this time was made to code any long range items other than show the anticipated class or role.

### Explanation of Terms

The place name, airport name, ownership, class, and abbreviations are the same as used for Existing Airport Data, Pages 17 through 23.

The system role, in the following example, B-L, the "B" indicates the airport class as defined under Existing Airport Data; the "L" indicates the role of this airport in the over all system of airports. The system role code is as follows:

- P - Primary air carrier airport, served by trunk air carriers, Northwest Air Lines and Western Air Lines.
- F - Feeder air carrier airport, served by regional air carriers, Air West and Frontier Air Lines.
- T - Scheduled feeder airport, served by local air carriers, Combs Airways, Inc. and Commute Air.
- R - Reliever general aviation airport, this airport will provide general aviation a facility away from a congested air carrier airport.
- L - Local general aviation airport for economic development.
- LX - Special use general aviation airport; emergency, recreation, industry, government.



Work Code is indicated as follows:

- 1 - Make minor, but necessary, improvements to existing fundamental configuration.
- 2 - Provide major paving at existing fundamental configuration.
- 3 - Make major improvements other than major paving at existing fundamental configuration.
- 4 - Make major terminal improvements to existing fundamental configuration.
- 5 - Construct new airport or acquire existing airport.
- 6 - Land acquisition for new airport
- 7 - Add capacity-oriented facilities to existing airport; new runway(s).
- 8 - Add capacity-oriented facilities to existing airport; new paving other than runways.
- 9 - Add capacity-oriented facilities to existing airport; terminal facilities.
- 0 - Add navigational aids and/or radio.
- 00 - Construct new terminal complex.

The Cost Code will bracket the cost of the item as follows:

1 - Below	- \$ 5,000	6 - \$ 100,000	- \$ 150,000
2 - \$ 5,000	- \$ 10,000	7 - \$ 150,000	- \$ 200,000
3 - \$10,000	- \$ 20,000	8 - \$ 200,000	- \$ 300,000
4 - \$20,000	- \$ 50,000	9 - \$ 300,000	- \$ 500,000
5 - \$50,000	- \$100,000	10 - \$500,000	- \$1,000,000
11 - Over \$1,000,000			



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Intermediate		
	Short	Interim	Long	Description of Recommended Devel.	Cost	Work	Cost
BEAVERHEAD COUNTY Dell Dell Flight Strip State of Montana	B-LX	B-LX	B-LX	Install NDB	5,000	3 8	2 3
Dillon Beaverhead County Beaverhead County	LFS-L	LFS-L	LFS-T	Pave crosswind Light crosswind		7 3	5 4
Jackson Hirschy-Jackson Private	LFL-L	LFL-L	LFL-L	Acquire airport		5	
Wisdom Wisdom Beaverhead County	LFL-L	LFL-L	LFG-L	Land for airport development Runway marking	6 1	1	
BIG HORN COUNTY Crow Agency		LFG-L	LFG-L	Construct airport		5	5
Fort Smith Yellowtail Dam National Park Service	LFL-LX	LFL-LX		Acquire Pave		5	
Hardin Fairgrounds Airpark Big Horn County	LFL-L	LFL-L	LFL-L				
Hardin Hardin Municipal Big Horn County	LFS-L	LFS-L	B-L	Construct new airport NDB	80,000	7 0	1



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
Short	Interim	Long							
BIG HORN COUNTY -Cont. Lodge Grass	LFG-L	LFG-L	Construct new airport				5	5	
BLAINE COUNTY Chinook Chinook Municipal Blaine County-City of Chinook	LFG-L	LFG-L	Overlay NDB Zoning				2	5	1
Chinook Hebbelman Private	LFL-LX	LFL-LX	LFL-LX				0	0	
Harlem Riggin Memorial Blaine County-City of Harlem	LFL-L	LFS-L	LFS-L			Widen runway shoulders Unicom			1 2
Hays	LFG-L	LFG-L	LFG-L			Construct new airport			0 1
Hogeland Hogeland Blaine County	LFL-LX	LFL-LX	LFL-LX			No plan			5 5
Turner Turner Blaine County	LFL-L	LFL-L	LFL-L			No plan			



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
Short	Interim	Long	Short	Interim	Long	Short	Interim	Long	
BROADWATER COUNTY Canyon Ferry Reservoir Canyon Ferry State of Montana	LFS-LX	LFS-LX	LFS-LX	No plan					
Townsend Townsend Town of Townsend— Broadwater County	LFL-L	B-L		Widen runway and Remove obstructions Lights			8	4	2
CARBON COUNTY Bridger Bridger Municipal City of Bridger	LFL-L	LFG-L	LFG-L	Widen runway			2	3	
Red Lodge Red Lodge City of Red Lodge— County of Carbon	LFS-L	LFS-L	B-L	Runway extension and overlay NDB			5,000	2	5
CARTER COUNTY Alzada	LFG-L	LFS-L	LFG-LX	Construct new airport				5	5
Ekalaka Ekalaka Carter County	LFG-L	LFS-L	LFS-L	Pave runway, apron, taxiway				2	5
CASCADE COUNTY Cascade	LFG-L	LFG-R	LFG-R	Construct new airport			50,000	5	5



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period			Intermediate		
	Class and Role		Description of Recommended Devel.	Cost	Work	Cost
Short	Interim	Long				
CASCADE COUNTY - Cont. Great Falls Great Falls International City of Great Falls	AC-P	AC-P	AC-P	Extend and strengthen runways 16/34 and 3/21; strengthen taxiway; additional lights New terminal complex	15,000	5
Great Falls Montana Deaconess Hospital Heliport Montana Deaconess Hospital	H-LX	H-LX	H-LX	Construct new heliport	00	2
CHOUTEAU COUNTY Big Sandy Big Sandy City of Big Sandy - Chouteau County	LFL-L	LFS-L	LFS-L		5	2
Carter Carter Chouteau County	LFL-LX	LFL-LX	LFL-LX		5	2
Fort Benton Fort Benton City of Fort Benton - County of Chouteau	LFS-L	LFS-L	LFS-L		5	2
Geraldine Geraldine City of Geraldine - County of Chouteau	LFS-L	B-L	B-L		5	2



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Cost	Work	Cost
	Class and Role		Description of Recommended Devel.				
	Short	Interim	Long				
CUSTER COUNTY Miles City Miles City City of Miles City	AC-F	AC-F	AC-F				
Miles City Pine Hills School Heliport	H-LX	H-LX	H-LX	Construct new heliport	2,000	5	1
DANIELS COUNTY East Poplar East Poplar State of Montana	LFL-LX	LFL-LX	LFL-LX				
Scobey Scobey City of Scobey— County of Daniels	LFS-L	B-L	B-L		2		5
DAWSON COUNTY Glendive Dawson Community City of Glendive— County of Dawson	AC-F	AC-F	AC-F				
Richey Richey Dawson County	LFG-L	LFG-L	LFG-L		8 0	4 2	



DEVELOPMENT RECOMMENDATIONS

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Place Name Airport Name Ownership	Short Range Planning Period				Intermediate	
	Class and Role		Description of Recommended Devel.		Cost	Work Cost
	Short	Interim	Long			
DEER LODGE COUNTY Anaconda Anaconda City of Anaconda— Deer Lodge County	B-L	B-L	B-R			4
Galen Galen State Hospital Heliport State of Montana— Dept. of Institutions	H-XL	H-XL	H-XL			7
FALLON COUNTY Baker Baker Municipal City of Baker	LFS-L	B-L	B-L	Install NDB	5,000	0
FERGUS COUNTY Denton Denton Fergus County—City of Denton	LFL-L	LFS-L	LFS-L		2	5
Lewistown Lewistown Municipal City of Lewistown— County of Fergus	AC-F	AC-F	AC-F		2	9
Winifred Winifred City of Winifred— County of Fergus	LFL-L	B-L	B-L		2	5



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.	Cost	Work	Cost		
	Short	Interim	Long						
FLATHEAD COUNTY Big Fork	LFG-L	B-L	B-L	Acquire and fence land; grade landing area	35,000	5	4		
Columbia Falls Veteran's Home Heliport	H-LX	H-LX	H-LX	Construct new heliport	2,000	5	1		
Kalispell Kalispell City City of Kalispell	LFG-L	LFG-L	B-R			2	5		
Kalispell Kalispell General Hospital Heliport	H-LX	H-LX	H-LX						
Kalispell Kalispeil General Hospital	AC-F	AC-F	AC-P	Construct taxiway; extend runway; strengthen runway, taxiway, apron		2	9		
Marias Pass	LFG-LX	LFG-LX	LFG-LX			0	0		
Polebridge Polebridge State of Montana	B-L	B-L	B-L	Construct new airport			6		
West Glacier							5		



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Intermediate		
	Class and Role		Description of Recommended Devel.		Cost	Work	Cost
Short	Interim	Long					
FLATHEAD COUNTY-Cont. Whitefish North Valley Com- munity Hospital Heliport	H-LX	H-LX	H-LX			5	1
Whitefish Whitefish Flathead County	LFG-L	LFG-L	B-R		2	5	
GALLATIN COUNTY Bozeman Gallatin Field Gallatin County— City of Bozeman	AC-P	AC-P	AC-P		0 00 2	5 9 8	
Three Forks Three Forks City of Three Forks	LFS-L	LFS-L	B-L		1 2	5	
West Yellowstone Yellowstone Airport State of Montana	AC-P	AC-P	AC-P	Acquire land for clear zones Install NDB	15,000	0 2 9 0	2 10 10 0
GARFIELD COUNTY Jordan Jordan Garfield County	LFS-L	LFS-L	B-L		2	5	



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Intermediate		
	Class and Role		Description of Recommended Devel.		Cost	Work	Cost
Short	Interim	Long					
GLACIER COUNTY Babb Babb State of Montana	LFS-L	LFS-L	LFS-L				
Browning Starr-Browning State of Montana	LFS-L	LFS-L	LFS-L				
Cut Bank Cut Bank City of Cut Bank— Glacier County	LG-L	LG-L	AC-T				
Cut Bank Cut Bank Memorial Hospital Heliport Cut Bank Memorial Hospital	H-LX	H-LX	H-LX				
East Glacier	LFL-LX	AC-F	AC-F	Construct LFL airport	18,000	5	3
GOLDEN VALLEY Lavina Lavina Golden Valley County	LFG-L	LFG-L	LFG-L		0	1	11
Ryegate Ryegate Golden Valley County	LFG-L	LFG-L	LFG-L		5	3	2



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long						
GRANITE COUNTY Drummond Drummond Granite County	LFL-L	B-L	B-L						
Philipburg Philipburg Granite County	B-L	B-L	B-L						
HILL COUNTY Havre Havre City-County City of Havre-Hill County	AC-F	AC-F	AC-F						
Rocky Boy	LFG-L	LFG-L	LFG-L	Acquire and fence land; grade landing area			25,000	5	4
Rudyard	LFG-L	LFG-L	LFG-L	Acquire and fence land; grade landing area			25,000	5	4
JEFFERSON COUNTY Boulder Boulder Jefferson County	LFG-L	LFG-L	LFG-L						
Boulder Boulder River School Heliport	H-LX	H-LX	H-LX	Construct new heliport			2,000	5	1
Whitchall	B-L	B-L	B-L						6



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
Short	Interim	Long							
JUDITH BASIN COUNTY Hobson	LFG-L	LFG-L	LFG-L	Acquire and fence land; grade landing area					
Stanford	LFS-L	LFS-L	LFS-L				25,000	5	4
Stanford							.	3	2
Judith Basin County								2	5
LAKE COUNTY									
Polson	B-L	G-T		Install NDB Extend apron					
Polson							5,000	0	1
City of Polson - Lake County								8	4
Ronan	LFS-L	LFS-L	LFS-L					7 & 8	6
Ronan									
City of Ronan - Lake County									
St. Ignatius	LFL-L	LFL-L	LFL-L						
St. Ignatius									
Town of St. Ignatius - Lake County									
Swan Lake	H-LX	H-LX		Construct new heliport					
Swan Lake Youth Forest Camp							2,000	5	1
Heliport									



DEVELOPMENT RECOMMENDATIONS

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Place Name Airport Name Ownership	Short Range Planning Period				Intermediate		
	Class and Role				Cost	Work	Cost
	Short	Interim	Long	Description of Recommended Devel.			
LEWIS & CLARK COUNTY Augusta Augusta-McBratney Lewis & Clark County	LFG-L	LFG-L	LFG-L				
Benchmark Benchmark U. S. Forest Service	B-LX	B-LX	B-LX				
Helena Helena City of Helena-Lewis and Clark County	AC-P	AC-P	AC-P	Extend runway 8/26; strengthen runway, taxiway, apron Strengthen runway 11/29	7 & 8 2 00	11 5 10	
Lincoln Lincoln State of Montana	LFG-L	LFG-L	LFG-L	Strengthen runway, taxiway, apron; clear zone obstruction removal	70,000	3	2
Wolf Creek Ox-Bow State of Montana	B-LX	B-LX	B-LX				
LIBERTY COUNTY Chester Liberty County Liberty County	LFSL	B-L	B-L				
Tiber Dam Tiber Dam State of Montana	LFL-LX	LFL-LX	LFL-LX	Strengthen runway, taxiway, apron Construct crosswind runway		2 7 7	5 3 4



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Class and Role			Short Range Planning Period			Intermediate		
	Short	Interim	Long	Description of Recommended Devel.			Cost	Work	Cost
LINCOLN COUNTY Eureka Eureka Town of Eureka	LFL-L	LFL-L	B-L						
Fortine Vredenburg Private	LFL-LX	LFL-LX	LFL-LX				7,500	0	2
Libby Libby Lincoln County	G-T	G-T	G-T	Install NDB				8	4
Rossville				LFG-LX	LFG-LX				
Troy Troy U. S. Forest Service	LFL-L	LFL-L	LFL-L	LFG-LX	LFG-LX				
McCONE COUNTY Circle Circle McCone County	B-L	B-L	B-L	L4	L4				
Rock Creek State Park				LFG-LX	LFG-LX				
MADISON COUNTY Ennis Sportsmans Field Private	LFL-L	LFL-L	B-L						



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long						
MADISON COUNTY-Cont. Twin Bridges Twin Bridges Town of Twin Bridges	LFS-L	LFS-L	B-L						
Twin Bridges Childrens Center Heliport	H-LX	H-LX	H-LX	Construct new heliport			2,000	5	1
MEAGHER COUNTY White Sulphur Springs White Sulphur Springs Town of White Sulphur Springs-Meagher County			B-L						
				B-L					
MINERAL COUNTY Superior Superior Mineral County	LFG-L	LFG-L	LFG-L					2	4
MISSOULA COUNTY Clinton Rock Creek Elliott Field State of Montana	LFL-LX	LFL-LX	LFL-LX						
Condon Condon U. S. Forest Service	LFL-LX	LFL-LX	LFG-LX						



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Description of Recommended Devel.	Cost	Work	Intermediate Cost
	Short	Interim	Long	Class and Role				
MISSOULA COUNTY-Cont. Evaro Evaro Private	LFL-LX	LFL-LX	LFL-LX					
Missoula Johnson-Bell Field Missoula County	AC-P	AC-P	AC-P		Extend runway; strengthen runway, taxi-way, apron Approach nav-aids			2 10 0 8 2 & 00 11
Missoula Missoula Community Hospital Heliport	H-LX	H-LX	H-LX		Construct new heliport	10,000	5	2
Seeley Lake Seeley Lake Missoula County	LFG-L	LFG-L	LFG-L					
MUSSELSHELL COUNTY Melstone	B-L	B-L	B-L					5
Roundup Roundup City of Roundup— Musselshell County	LFS-L	LFS-L	LFS-L		NDB install FY 69			6
PARK COUNTY Chico Hot Springs	LFG-LX	LFG-LX	LFG-LX					5



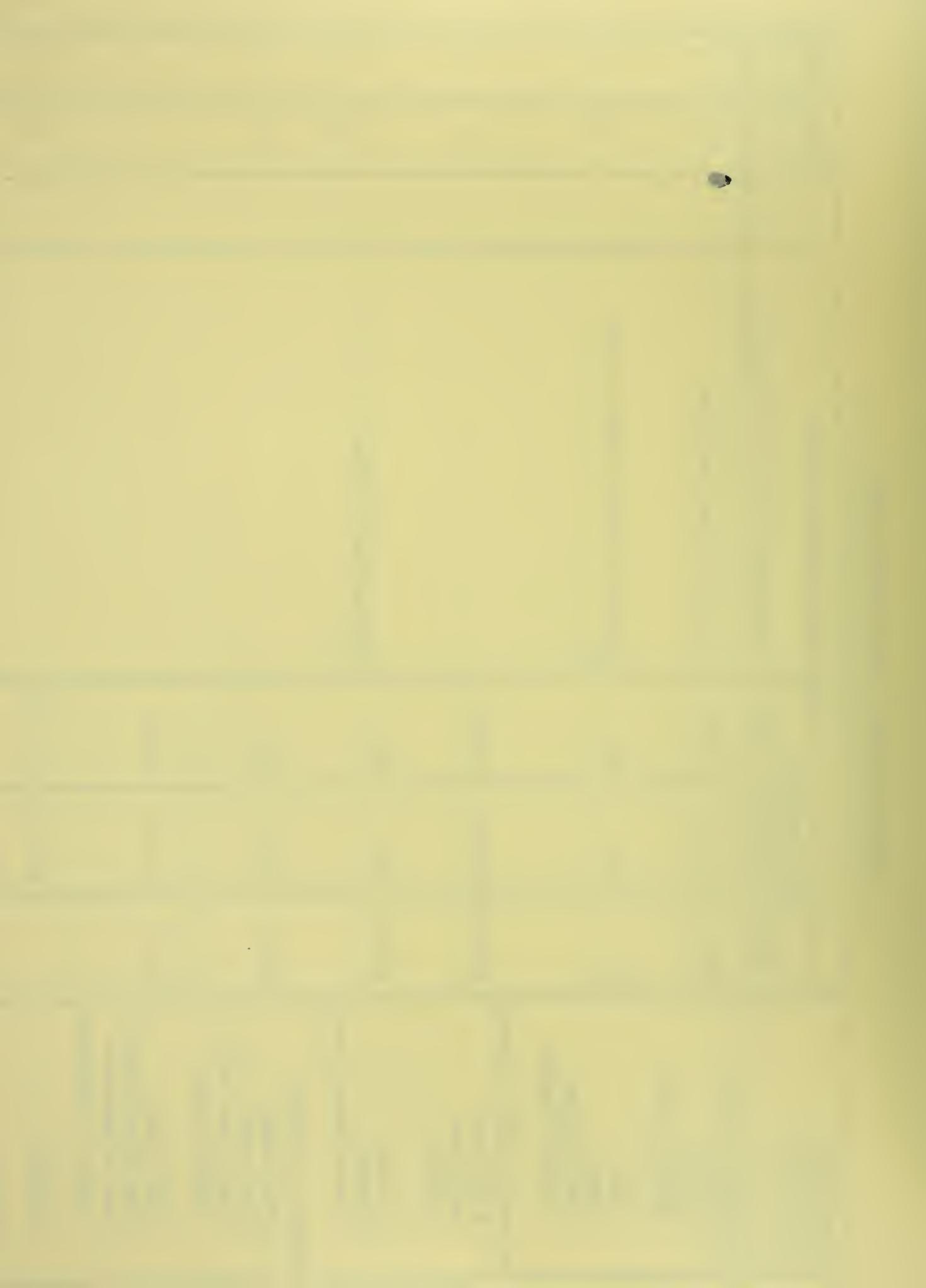
DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
Short	Interim	Long	Short	Interim	Long	Cost	Work	Cost	
PARK COUNTY - Cont. Gardiner Gardiner Park County	LFL-L	LFL-L	LFL-L				2		6
Livingston Mission Field City of Livingston – Park County	B-L	B-L	G-T				1		4
Wilsall Wilsall Park County	LFL-L	LFL-L	LFG-L						
PETROLEUM COUNTY Winnett	LFG-L	B-L	B-L	Acquire and fence land; grade landing area			25,000	5	4
PHILLIPS COUNTY Saco Hot Springs			LFG-L						
Malta Malta City of Malta – Phillips County	LFS-L	B-L	B-L					2	5
Morgan Morgan Phillips County	LFL-LX	LFL-LX	LFL-LX						



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Intermediate Cost			
	Class and Role	Short	Interim	Long	Description of Recommended Devel.	Cost	Work	Cost
PONDERA COUNTY Conrad Conrad Pondera County	LFS-L	LFS-L	LFS-L	LFS-L	Construct taxiway and apron		2	4
Valier Valier City of Valier — Pondera County	B-L	B-L	B-L	B-L	Construct runway, taxiway, apron L5		2 3	6 4
POWDER RIVER COUNTY Bell Creek Bell Creek Private	LFL-LX	LFG-L	LFG-L	LFG-L		5	6	
Broadus Broadus Powder River County	LFG-L	B-L	B-L	B-L	NDB installed FY 1969	0 2	1 5	
POWELL COUNTY Deer Lodge Deer Lodge City of Deer Lodge — Powell County	LFS-L	LFS-L	LFS-L	B-L		2	5	
Deer Lodge State Prison Heliport State of Montana — Dept. of Institutions	H-LX	H-LX	H-LX	H-LX				
Elliston	LFG-LX	LFG-LX	LFG-LX	LFG-L		5	5	5
Ovando	LFG-L	LFG-L	LFG-L	LFG-L				



DEVELOPMENT RECOMMENDATIONS

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Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long						
PRAIRIE COUNTY Terry Terry Prairie County	LFL-L	LFG-L	LFG-L						
RAVALLI COUNTY Hamilton Hamilton City of Hamilton – Ravalli County	LFS-L	G-L	G-L	Install NDB			5,000	2	6
Hamilton Marcus Daly Memori- al Hospital Heli- port	H-LX	H-LX	H-LX	Construct new heliport			5,000	5	2
Stevensville Stevensville Ravalli County	LFL-L	LFL-L	LFL-L						
RICHLAND COUNTY Fairview Fairview Richland County	LFG-L	LFG-L	LFG-L	Construct runway, taxiway, apron			30,000	5	4
Sidney Sidney - Richland Municipal Richland County	AC-F	AC-F	AC-F	Construct air carrier runway; widen twy; extend apron; strengthen existing runway, taxiway, apron				2 & 5	9
								0	7



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long						
ROOSEVELT COUNTY Culbertson Culbertson Roosevelt County	LFL-L	LFL-L	B-L					2	5
Poplar Poplar Roosevelt County	LFS-L	LFS-L	LFS-L	Relocate lights				2 00 0	2 5 7
Wolf Point Wolf Point Roosevelt County	AC-F	AC-F	AC-F					2 00 0	4 4 7
ROSEBUD COUNTY Ashland Ashland Private	LFS-L	LFS-L	B-L						
Colstrip Colstrip Private	LFL-LX	LFL-LX	B-LX	Construct new airport					
Forsyth Forsyth Municipal Rosebud County	LFS-L	B-L						2	5
Lame Deer									
SANDERS COUNTY Heron									



DEVELOPMENT RECOMMENDATIONS

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Place Name Airport Name Ownership	Short Range Planning Period				Cost	Work	Intermediate Cost
	Class and Role Short	Interim	Long	Description of Recommended Devel.			
SANDERS COUNTY -Cont. Hot Springs Hot Springs Sanders County	LFL-L	LFL-L	B-L				
Plains Plains Sanders County	LFL-L	LFL-L	B-L				
Thompson Falls Thompson Falls Sanders County	LFL-L	LFL-L	B-L		0	2	
SHERIDAN COUNTY Medicine Lake Medicine Lake City of Medicine Lake Sheridan County	LFL-L	LFL-L	B-L				
Plentywood Sher-Wood City of Plentywood – Sheridan County	LFS-L	LFS-L	LFS-L		2	5	
SILVER BOW COUNTY Butte Silver Bow County Silver Bow County	AC-P	AC-P	AC-P	Extend rwy; strengthen rwy, twy, apron Approach nav-aids Install NDB	2 0 5,000	9 8	
Tri-City	AC-P	AC-P	AC-P		5	11	



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long						
STILLWATER COUNTY Absarokee		LFG-L	LFG-L					5	5
Columbus	LFL-L	B-L	B-L					2	5
Columbus									
City of Columbus									
Rapelje			B-L						
SWEET GRASS COUNTY									
Big Timber	B-L	B-L	B-L						
Big Timber									
City of Big Timber –									
Sweet Grass County									
TETON COUNTY									
Choteau	B-L	B-L	B-L					0	2
Choteau									
City of Choteau –									
Teton County									
Dutton	LFL-L	B-L	B-L					5	6
Dutton									
Town of Dutton –									
Teton County									
Fairfield	LFS-L	B-L	B-L					2	6
Fairfield									
City of Fairfield –									
Teton County									



DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period				Intermediate	
	Class and Role		Description of Recommended Devel.		Cost	Work
Short	Interim	Long				
TOOLE COUNTY Shelby Shelby Toole County	B-L	B-L	B-T			
Sunburst Sunburst Toole County	LFL-L	LFL-L	LFL-L			
Sweetgrass Ross International State of Montana	LFL-LX	LFL-LX	LFL-LX			
TREASURE COUNTY Hysham Hysham Treasure County	LFG-L	LFG-L	LFG-L			
VALLEY COUNTY Fort Peck Fort Peck U. S. Government	LFS-LX	LFS-LX	LFS-LX			
Glasgow Glasgow International City of Glasgow – Valley County	AC-F	AC-F	AC-F	Extend runway; strengthen taxiway	2	6
Hinsdale Hinsdale Valley County	LFL-L	LFL-L	LFL-L		0	6

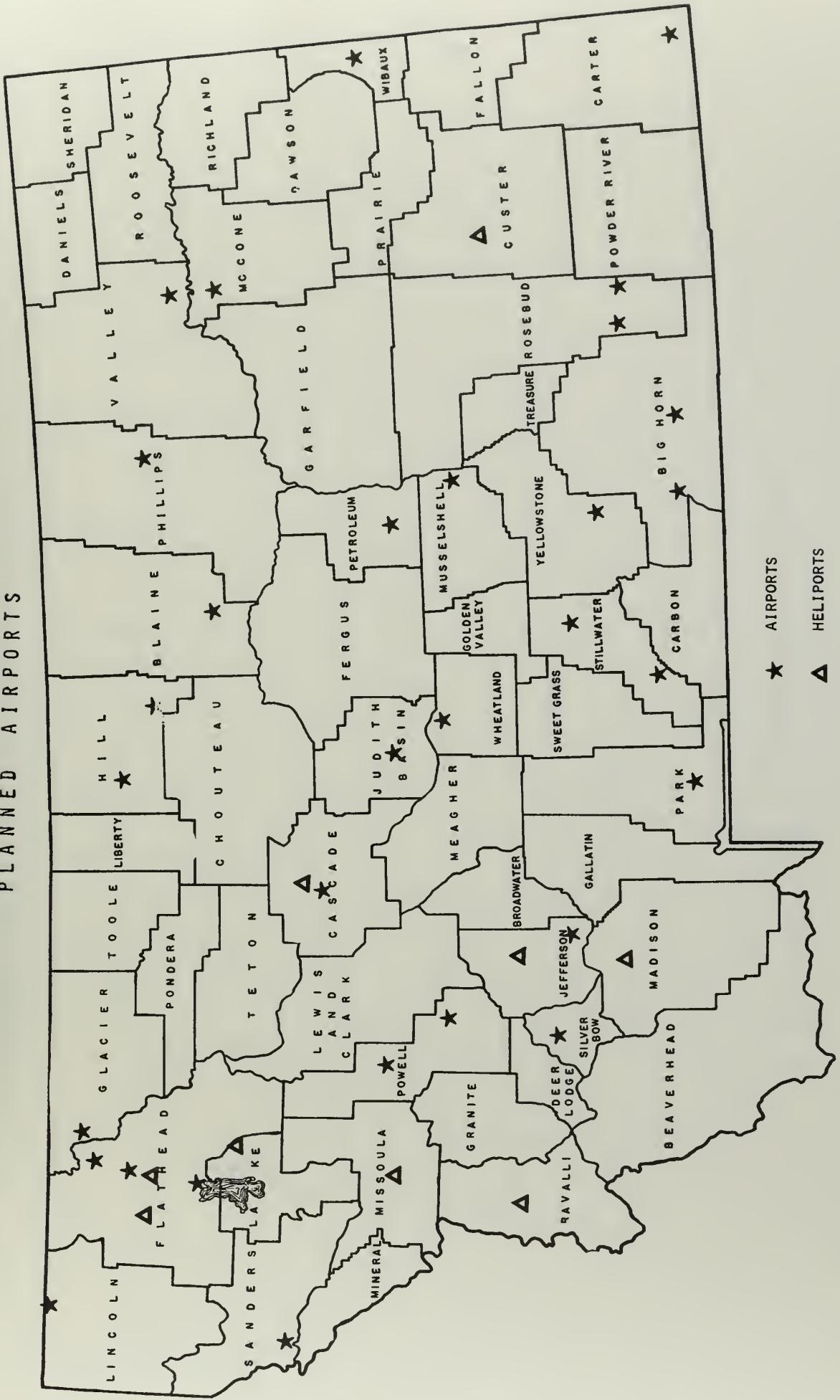


DEVELOPMENT RECOMMENDATIONS

Place Name Airport Name Ownership	Short Range Planning Period						Intermediate		
	Class and Role			Description of Recommended Devel.			Cost	Work	Cost
	Short	Interim	Long	LFG-L	LFS-L	LFG-L			
VALLEY COUNTY-Cont. Nashua									
Opheim Opheim City of Opheim - Valley County	LFS-L	LFG-L	B-L						
WHEATLAND COUNTY Harlowton Harlowton Municipal City of Harlowton	LFS-L	B-L	B-L						
Judith Gap				LFG-L					
WIBAUX COUNTY Wibaux				LFG-L					
YELLOWSTONE COUNTY Billings Logan Field City of Billings	AC-P	AC-P	AC-P						
Huntley				B-R					
Laurel Laurel City of Laurel	B-L	B-R	B-R						

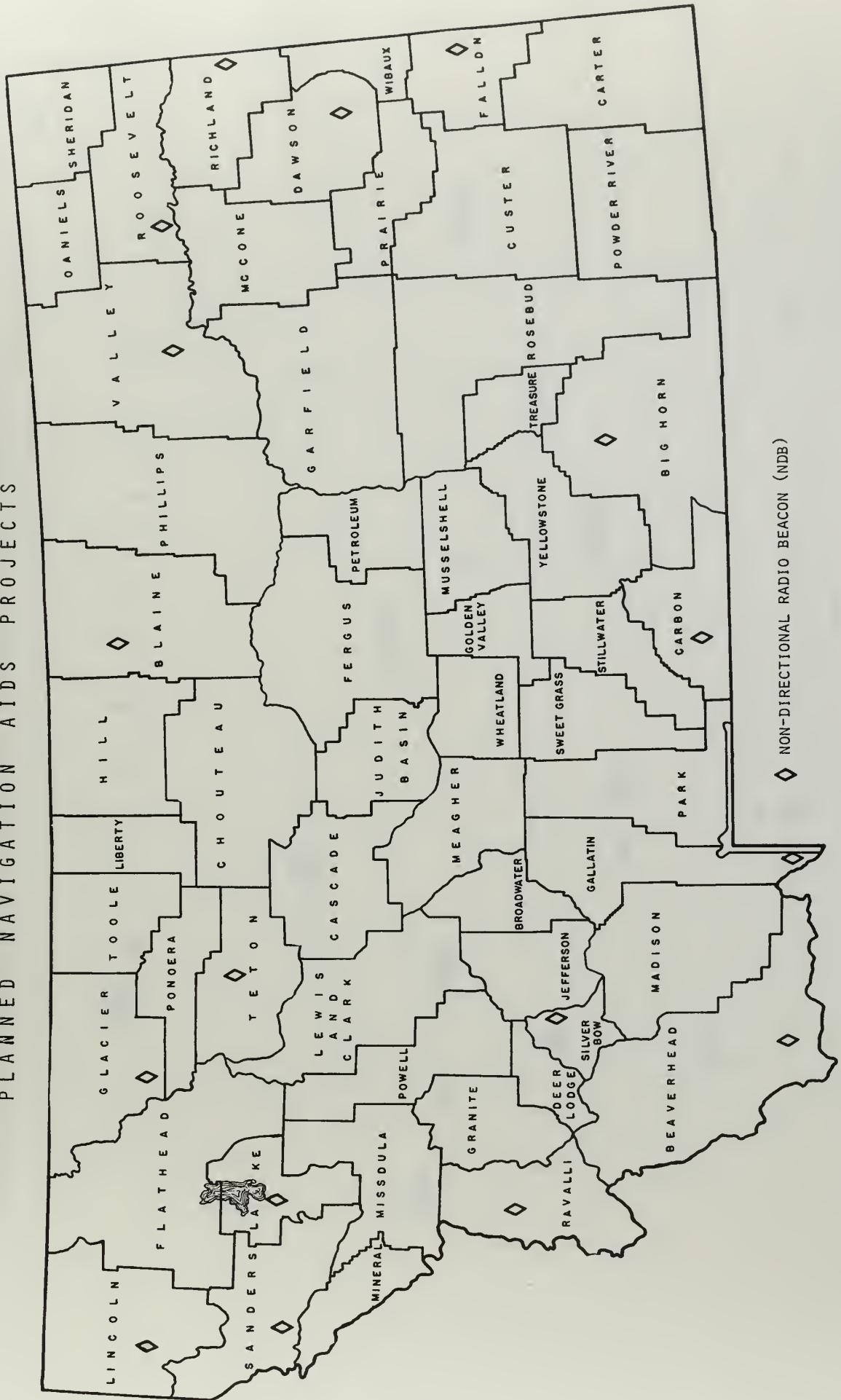


## PLANNED AIRPORTS



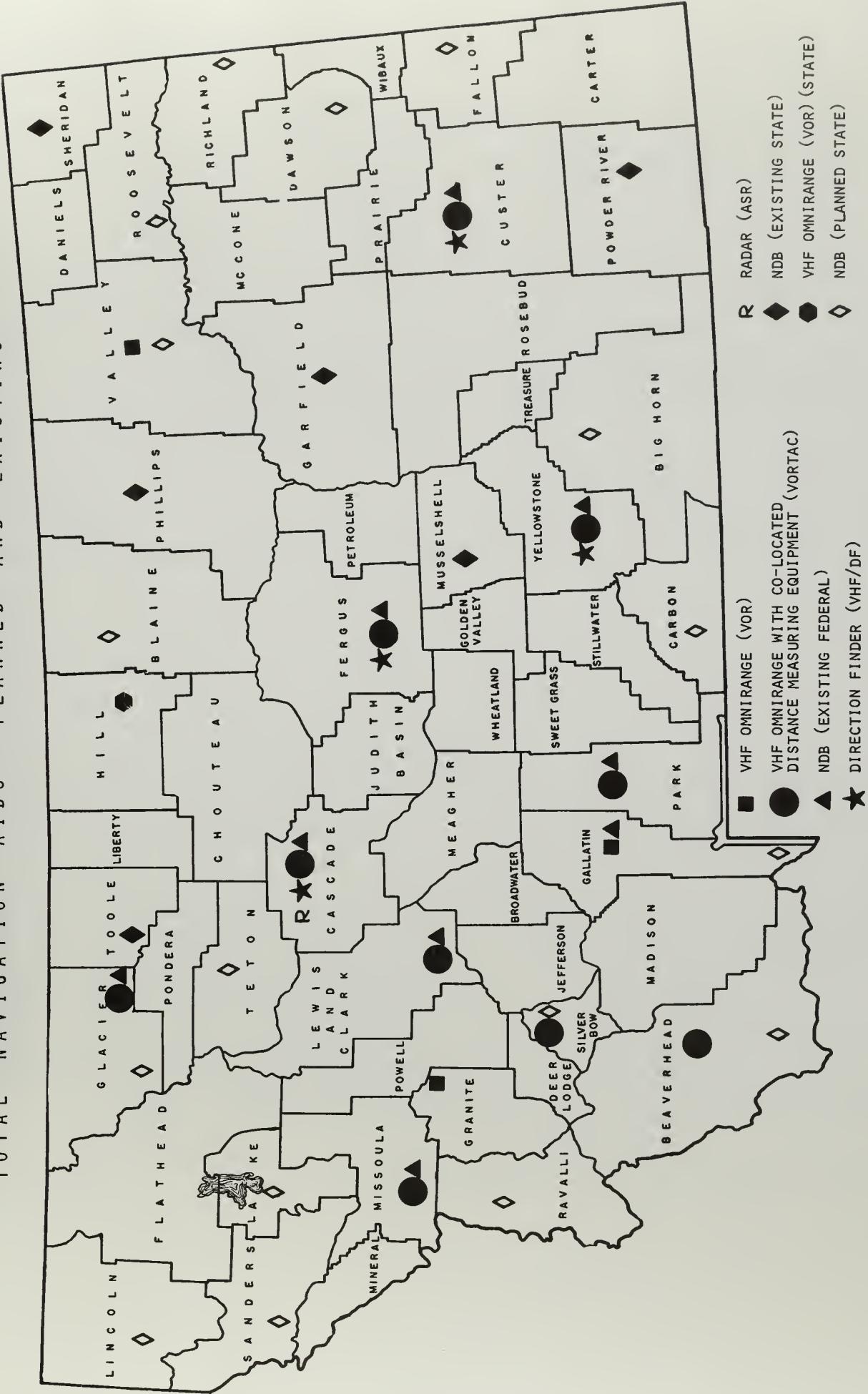


PLANNED NAVIGATION AIDS PROJECTS





TOTAL NAVIGATION AIDS — PLANNED AND EXISTING





## IMPLEMENTATION

For a System of Public Owned, Public Use Airports

Federal Aid to Airports Program

For Class B G LG AC Airports	(1) <u>Federal 53%</u>  Funds available on Grant Offer for eligible items of construction of approved design for class of airport justified.	(2) <u>Sponsors 47%</u>  Within the scope of existing statutes may be available	
		by revenues, by mill levy, revenue bonds, or general ob- ligation bonds.	all or part by loan from Montana Aeronautics Commission.

General Aviation Utility Airports

	(1) Community Airports	(2) Other Necessary Airports
For Class H LPL LFG LFS Airports	Design, financing and construction by Montana Aeronautics Commission following application and repayment resolution received from sponsoring local government identity. (City, town or county). Repayment to equal 2-1/2 mills at High School District value, or \$10,000 maximum.	Design, financing and construction by Montana Aeronautics Commission for Special Purposes:  Emergency Recreational Border Crossing Industrial Public Service with or without local government participation.



State and State-Federal Projects

For All Classes Of Airports	(1) State-Federal	(2) State
	For B, G, LG, and AC airports under F.A.A.P. with the state as sponsor, or by agreement with other Federal agencies (USDA-FS), (USDI-PS) etc., as sponsor (See A. (1) Schedule).	For LFL, LFG, LFS, BI and BII airports by joint agreement with Federal agencies other than FAA under Federal Aid to Airport Program.

State Sponsor - Federal Finance Airports

For LG and AC Airports	Federal Share	State Share
	Other Federal agencies funds, land, or value in kind used as sponsors share in construction under Federal Aid to Airport Program.	Maintenance, operations and construction of non-eligible items as per Federal Aid to Airport Program.



## AIRPORT IMPROVEMENT LOAN PROGRAM

The Montana Aeronautics Commission is able to loan money to a local airport board for the development of any airport project. Under present State law, a county may be obligated for an indebtedness not to exceed \$10,000 for a single project without electorate approval. Cities are restricted only by their legal indebtedness limitation law, therefore the Aeronautics Commission may loan a city any amount based on: The community's ability to repay and a statement from their attorney that the amount of the loan does not exceed their bonded indebtedness; the priority of the airport improvement project; and the monies available from the Aeronautics Commission.

Airport improvement loans are repayable annually at a 3-1/2% interest rate. The length of the loan is for ten (10) years or less. The 3-1/2% interest rate was imposed by the Aeronautics Commission on April 11, 1967. Up until that time all airport improvement loans were interest free.

Counties and cities are both allowed by State statute to levy up to two (2) mills for airport purposes without electorate approval. The communities or counties involved may use State funds along with available local funds for any particular airport project. The majority of local/state projects are usually the smaller type development; however, State loans are used mostly for projects that are eligible under the Federal Aid Airport Program. The loan can be used as a sponsor's 47% matching funds and the Federal Aviation Administration will grant approximately 53% of the project costs on any eligible and approved project.

In the past the Commission's Airport Improvement Loan has been used by itself on a wide variety of projects including; purchasing snow plows; building hangars, administration buildings, new runways; repairing existing runways, and the accomplishment of other specific airport improvements.



## GENERAL AVIATION UTILITY AIRPORTS

Under this program a minimum, but adequately safe, airport facility is developed primarily for the use of general aviation in a location that does not presently have an airport. Construction costs are held to approximately \$25,000.. The airport consists of one stabilized turf runway with parking apron, a segmented circle, windcone, runway markers, and the property line fenced. The Aeronautics Commission has a consulting engineering firm retained through the Department of Administration and the Board of Examiners and also contracts for construction. The sponsor, who is either a city or county, or both, agrees to repay the State of Montana the equivalent of 2-1/2 mills based on the local high school district value and not to exceed \$10,000 over a ten year period for their share of the project cost. The balance of the cost above the quarter mill per year becomes a grant on the part of the State to the county or municipality involved at the end of the 10-year repayment period.



## PRELIMINARY ENGINEERING GRANTS

The Montana Aeronautics Commission encourages the continued development of a state-wide system of airports. The role of each airport facility must be evaluated and measured not only by its own merits, but in relation to others. To the extent possible, each must be planned to support and supplement the usefulness of the other so that, ideally, if all of the airports included in the Montana Airport Plan were developed at the same time and in the manner prescribed, the system of public airports for Montana would be adequate in all respects. In order that planning and preliminary engineering will take place at local level, the Aeronautics Commission has provided Engineering Grants for that purpose.

The Commission will grant to a community or county, or airport board, one-half of the cost up to a maximum of \$1,000, whichever is the lesser of a preliminary engineering study and cost estimate for their airport. This is a grant that does not have to be repaid. The local airport board must match the grant for payment to the engineer.



## HOSPITAL HELIPORT PROGRAM

Hospital administrators desirous of establishing emergency ambulance heliports in connection with their facility, may apply immediately to the Aeronautics Commission stating their needs and desires in this respect. The Commission's Airport Division will then make the appropriate feasibility studies at the specific hospital locations and proceed with design, construction, and marking of the heliport.

The State share of this program obviously has to be limited to the hospital heliport itself and any building modification for the purpose of roof access to a roof top heliport would have to be borne by the hospital administration.





